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STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

HARVESTING SERVICES CONTRACT

AGREEMENT NO. 30-078915

SALE NAME: Martin FI

THE STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES, HEREINAFTER ACTING SOLELY, IN ITS PROPRIETARY CAPACITY, STATE, AND [Purchaser Name here], PURCHASER, AGREE AS FOLLOWS:

Section G: General Terms

G-001 Definitions: The following definitions apply throughout this contract.

<u>Contract Administrator</u>: Region Manager's designee who is responsible for assuring that the contractual obligations of the Purchaser and Contractor are met.

<u>Contractor</u>: State-selected harvester who will perform all activities required by the Harvesting Services Contract, including but not limited to timber harvesting, road construction services, debris removal and piling, delivery of or delivering logs for weighing and/or scaling, and hauling of forest products under the direction of the State, as landowner, for the purpose of delivering logs to the Purchasers of the timber sales sorts.

<u>Delivery:</u> Occurs when logs meeting the sorting specifications arrive at the Purchasers destination, as described in the contract.

<u>Harvesting</u>: A general term, referring to the Contractor's various obligations under the Harvesting Services Contract.

<u>Harvesting Services Contract</u>: Contract between the Contractor and the State, which sets forth the procedures and obligations of the Contractor for completing the harvesting of timber, and the delivery of various log sorts to the State's purchasers, and the payment obligations of the State, The Harvesting Services Contract will include a Road Plan for any road construction or reconstruction, where applicable.

<u>Log Sale and Purchase Contract</u>: Purchase Agreement between the State and Purchaser(s) of particular log sorts from the timber sale.

<u>Purchaser</u>: The company or individual that has entered a Log Sale Contract with the State for individual log sorts from the timber sale area. The Contractor must deliver the designated log sorts to this company or individual. Contractor will likely be delivering different log sorts to different purchasers under the Harvesting Services Contract.

<u>State</u>: The Washington State Department of Natural Resources, landowner and seller of logs from the timber sale area. The State is represented by the Region Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the Region Manager or the designated Contract Administrator.

G-015 Harvest Area and Location

The harvest area consists of approximately 327 net acres located on part(s) of Section 16, Township 39 North, Range 36 North, W.M., in Ferry County as shown on the

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attached timber sale map.

G-021 Inspection By Contractor

Contractor hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products to be harvested. Contractor further warrants to the State that they enter this contract based solely upon their own judgment of the harvest and road work, and condition of the forest products, formed after their own examination and inspection of both the timber sale area and the forest products to be harvested. Contractor also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State.

G-022 Sorting Specifications

Purchaser shall accept and pay for delivery of log sorts by a state selected contractor to the designated Purchaser location that meets the following specifications:

Agreement No.	Sort #	Species/ Diameter	Scaling Rule	Preferred Log Length(s)	Destination
30-078916	1	LPP, DF,ES,RC,GF,	Weight		To Be Determined 8/29/06
		AF,WL 8"+ dib Saw Log	scale		
30-078917	2	LPP, DF,ES,RC,GF, AF,WL 4"-7" dib	Weight scale		To Be Determined 8/29/06
20.070010	2	Saw Log			T. D. D 10/20/06
30-078918	3	LPP, DF,ES,GF,AF, WL 3" + Utility	Weight scale		To Be Determined 8/29/06

"WS" means that west side scaling rules apply; "ES" means that east side scaling rules apply. Minimum trim is six inches per scaling segment for east side scaling rules and ten inches per scaling segment for west side scaling rules.

Logs delivered by Contractor that do not meet the receiving Purchaser's log sort and merchantability requirements as described above that have been pre-approved for delivery by the Contract Administrator shall not be considered mis-sorts.

G-024 Manufacturing Standards

Contractor will manufacture and deliver peeler and saw logs with the following minimum specifications:

- a. Sweep will be limited to within the bole of the log as measured using a tape stretched between the centers of each end of the log.
- b. Logs in the peeler sorts shall be chuckable with no more than a 2 inch diameter area of rot within a 5 inch diameter circle located at the center of either end of the log.
- c. Limbs and knots shall be cut flush, with no more than 15 percent of a log having limbs or knots over 2 inches in diameter extending more than 2 inches above the surface of the log.
- d. East of the crest of the Cascade Mountains, ponderosa pine will not be manufactured into merchantable saw logs if blue stain is present.

G-027 <u>Log Delivery Schedule and Conditions</u>

a. Contractor shall deliver logs to Purchaser's designated delivery location per G-022 clause. If a log delivery location is changed during this contract, the Contract Administrator shall notify the Contractor. Once notified, the Contractor shall deliver logs to the new location.

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- b. The Contractor may deliver logs to the Purchaser's delivery location during the Purchaser's working hours, or at least between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, except, scheduled closures and legal holidays for the contract term as described in clause G-032, unless permission to do otherwise is agreed upon by the State.
- c. The Contractor agrees to deliver said logs on conventional or self-loading logging trucks, properly and legally loaded, bound, branded, and ticketed. Logs in loads shall not be double-ended unless approved in writing by the Contract Administrator. It is understood and agreed that the Purchaser incurs no obligation to accept improperly or illegally loaded trucks in its facility. Any truck so loaded may be directed to vacate the yard and shall remain the responsibility of the Contractor to make the load conform to legal requirements for hauling.
- d. If a receiving Purchaser plans a scheduled closure, the Contract Administrator shall notify the Contractor at least 24 hours before the scheduled closure. Depending on the length of the scheduled closure or delays in log delivery, the Contract Administrator will decide in the best interest of the State on the disposition of the affected log sort(s) or any alternate delivery schedule or location.
- e. Contractor log delivery to a Purchaser location may be limited to no more than ten (10) truck deliveries of any one sort per day, provided the Contract Administrator notifies the Contractor at least 48 hours prior to the time this truck delivery limit is established. A truck delivery is all the wood hauled including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. If for any reason a Purchaser refuses more than ten (10) truck deliveries per day, Contractor shall notify the State's Contract Administrator.

G-032 Contract Term and Expiration Date

To ensure the timely completion of activities under this contract, the State shall determine the starting date. The State shall notify the Contractor no later than fourteen (14) days prior to the anticipated starting date. All activities are to occur from the starting date of 9/10/06 to the "Expiration Date" of 2/2/07 (Harvesting) 7/31/2007(Thinning)

All obligations of the Contractor for this contract shall be discharged not later than the "Expiration Date", unless the expiration date is adjusted as provided in this contract. The Contractor shall not have any right to enter the sale area for harvesting purposes after the expiration date.

G-033 Contract Curtailment of Operations

The Contractor shall provide the State with five days advance written notice to the Contract Administrator of its intent to commence or cease any and all operations under this contact. The commencement or cessation of operations must be approved by the Contract Administrator. Failure to comply will be considered a breach.

G-041 Contract Term Adjustment

A Contract Term Adjustment may be considered and based on actual time lost through unforeseeable causes beyond the control and without fault or negligence of the Contractor, including, but not restricted to, acts of the State, closures by government regulatory agencies, mill closures, fires, vandals, and unusually severe weather conditions, provided that the Contractor shall, within seven (7) calendar days of the initiation of such delay, notify the State, in writing, of the cause of delay, upon which notification the State shall ascertain the facts and extent of the delay and notify the Contractor in writing within a reasonable time of its decision regarding contract adjustment.

G-054 Contract Termination

The State may terminate this contract in whole or in part by giving fifteen (15) days written notice to the Contractor when it is in the best interests of the State. If this contract is so terminated, the State shall only be liable to make payments to the Contractor for the sum of the estimated expenditures for road construction, felling, bucking, yarding and decking products so processed but not removed from the sale area due to termination action. Contractor may not seek any other damages from the State for termination of this harvesting agreement.

G-061 Exclusion of Warranties

The following specific matters ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The CONDITION of the site or forest products. Any descriptions of the site or forest products in the notice of sale, other pre-contractual documents, or the Harvesting Services Contract are provided solely for administrative and identification purposes.
- b. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the notice of sale, other pre-contractual documents, or the Harvesting Services Contract are estimates only, provided solely for administrative and identification purposes.
- c. The VOLUME, WEIGHT, QUALITY, or GRADE of the forest products to be harvested. The descriptions of the forest products to be harvested are estimates only, made solely for administrative and identification purposes.
- d. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for informational purposes, but the information contained therein is not warranted. Contractors must make their own assessments of the site.
- e. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- f. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- g. Items contained in any other documents prepared for or by the State.

G-067 Governmental Regulatory Actions

a. Regulatory Risk

Except as provided in this clause, Contractor assumes all risks associated with governmental regulatory actions, including actions taken pursuant to the Forest Practices Act, Ch. 76.09 RCW, the Endangered Species Act, 16 U.S.C 1531-1544 and any Habitat Conservation Plan between the Department of Natural Resources and the U.S. Fish and Wildlife Service or any other agency now in place and as may be amended, or hereafter created, that may affect the operability of the timber sale.

b. Increased Costs

Contractor shall be responsible for any increased operational costs arising from any applicable foreign or domestic governmental regulation or order that does not cause

contract performance to become commercially impracticable or that does not substantially frustrate the purpose of the contract. If impracticability or frustration results from Contractor's failure to comply with this contract or from Contractor's acts or omissions, Contractor shall remain responsible for fulfilling contract obligations notwithstanding the impracticability or frustration.

G-068 Operational Permits

Contractor is responsible for obtaining any permits not already obtained by the State that relate to Contractor's operation. Forest Practice Application and Hydraulic Project Approval permits obtained by the State shall be transferred to Contractor. Contractor is responsible for all permits, amendments and renewals.

G-070 Limitation on Damage

In the event of a breach of any provision of this contract by the State, the exclusive remedy available to the Contractor will be limited to a return of the Performance Security, and payment for improvements and other services rendered by the Contractor, which were required by the Harvesting Services Contract. The State shall not be liable for any damages, whether direct, incidental, or consequential.

G-092 Harvest Area Boundary Adjustment

The State may make adjustments in the harvest area boundaries, or may mark timber outside such boundaries. The cumulative changes to the sale area during the term of the contract shall not exceed more than five (5) percent of the original sale area. Such adjustments or marking will be accomplished by the Contract Administrator. The Contractor must remove and deliver all material so designated, prior to the expiration date of the contract. All contract services within such boundary adjustments or so marked shall be paid for at contract rates.

G-111 Title

All rights, title, and interest in and to any timber shall belong to the State until delivered, at which time the appropriate Purchaser assumes title.

G-120 Responsibility for Work

All work, equipment, personnel, and materials necessary to perform the Harvesting Services Contract shall be the responsibility of Contractor.

G-121 Exceptions

Exceptions to Contractor's responsibility in clause G-120 shall be limited exclusively to the circumstances described in this clause. These exceptions shall not apply where damages occur due to Contractor's failure to take reasonable precautions or to exercise sound forest engineering and construction practices.

The State shall bear the cost to repair any existing roadway or section of required road completed to the point that an authorization to haul has been issued where such damage was not caused by Contractor, its employees, agents, or invitees, including independent contractors. Contractor shall accomplish repairs promptly as required by the State at the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State may elect to accomplish repairs by means of State provided resources.

Nothing contained in clauses G-120 (Responsibility for Work) and G-130 (Exceptions) shall be construed as relieving Contractor of responsibility for, or damage resulting from, Contractor's operations or negligence, nor shall Contractor be relieved from full responsibility for making good any defective work or materials.

G-123 Operating Authority

The State has arranged for the Contractor to have full and free license and authority to enter upon said lands with his agents and employees and do all things necessary, within the limitations herein set forth, in harvesting said timber as described in this contract.

G-124 Contractor Not an Employee of State

Contractor and his or her employees or agents performing under this contract are not employees of the Purchaser(s) or State. The Contractor will not hold itself out as nor claim to be an officer or employee of the Purchaser(s) or State by reason hereof, nor will the Contractor make any claim or right, privilege or benefits which would accrue to an employee under chapter 41.06 RCW or Chapter 28B.16 RCW.

G-125 State Expectations Regarding Contractor Disputes with Subcontractors or Material Providers

Should Contractor require subcontractors or material providers in order to complete their obligations, and should Contractor and its subcontractors or materials providers develop disputes regarding their completion of obligations under this contract, Contractor shall resolve any such disputes in a timely and efficient manner that does not involve or adversely affect either the State or its Purchasers.

G-141 Indemnity

To the fullest extent permitted by law, Contractor shall indemnify, defend and hold harmless State, agencies of State and all officials, agents and employees of State, from and against all claims arising out of or resulting from the performance of the contract. "Claim" as used in this contract means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable for bodily injury, sickness, disease or death, or injury to or destruction of tangible property including loss of use resulting therefrom. Contractors' obligations to indemnify defend, and hold harmless includes any claim by Contractors' agents, employees, representatives, or any subcontractor or its employees. Contractor expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Contractors' or any subcontractors' performance or failure to perform the contract. Contractors' obligation to indemnify, defend, and hold harmless State shall not be eliminated or reduced by any actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Contractor waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

In addition to any other remedy authorized by law, the State may retain as much of the performance security, or any money or credits due Contractor necessary to assure indemnification.

G-150 Insurance

Contractor shall, at its cost and expense, buy and maintain insurance of the types and amounts listed below. Failure to buy and maintain the required insurance may result in a breach and/or termination of the contract at State's option. State may also suspend Contractor operations until required insurance has been secured.

Companies admitted to do business within the State of Washington and have a rating of A-, Class VII or better in the most recently published edition of Best's Reports should issue all insurance and surety bonds. Any exception shall be reviewed and approved by the department's risk manager before the insurance coverage is accepted. If an insurer is not admitted, all insurance policies and procedures for issuing the insurance policies must comply with Chapter 48.15 RCW and 284-15 WAC.

The State of Washington, Department of Natural Resources Northeast region office shall be provided written notice before cancellation or non-renewal of any insurance referred to therein, in accord with the following specifications:

- 1. Insurers subject to Chapter 48.18 RCW (admitted and regulated by the Insurance Commissioner): The insurer shall give the State 45 days advance notice of cancellation or non-renewal. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.
- 2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

Before starting work, Contractor shall furnish State with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified in the contract. The Contractor shall obtain insurance coverage prior to operations commencing and continually maintain it in full force until all contract obligations have been satisfied or an operating release has been signed by the State.

Contractor shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Contractor's liability or responsibility.

The State of Washington, Department of Natural Resources, its elected and appointed officials, agents and employees shall be named as an additional insured on all general liability, excess, umbrella, and property insurance policies.

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Contractor waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

If Contractor is self-insured, evidence of its status as a self-insured entity shall be provided to State. If requested by State, Contractor must describe its financial condition and the self-insured funding mechanism.

By requiring insurance herein, State does not represent that coverage and limits will be adequate to protect Contractor and such coverage and limits shall not limit Contractor 's liability under the indemnities and reimbursements granted to State in this contract.

The limits of insurance, which may be increased as deemed necessary by State, shall not be less than as follows:

Commercial General Liability (CGL) Insurance. Contractor shall maintain general liability (CGL) insurance, and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000 per each occurrence. If such CGL insurance contains aggregate limits, the General Aggregate limit shall be at least twice the "each occurrence" limit. CGL insurance shall have products-completed operations aggregate limit of at least two times the "each occurrence" limit.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 (or a substitute form providing equivalent coverage). All insurance shall cover liability arising out of premises, operations, independent contractors, products completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another party assumed in a business contract), and contain separation of insured (cross liability) condition.

Employer's Liability "Stop Gap" Insurance. Contractor shall buy employers liability insurance, and, if necessary, commercial umbrella liability insurance with limits not less than \$1,000,000 each accident for bodily injury by accident or \$1,000,000 each employee for bodily injury by disease.

Workers' Compensation Coverage. Contractor shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Contractor and employees of any subcontractor or sub-subcontractor. Coverage shall include bodily injury (including death) by accident or disease, which exists out of or in connection with the performance of this contract. Except as prohibited by law, Contractor waives all rights of subrogation against State for recovery of damages to the extent they are covered by workers' compensation, employer's liability, commercial general liability, or commercial umbrella liability insurance.

If Contractor, contractor, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Contractor shall indemnify State. Indemnity shall include all fines, payment of benefits to Contractor or contractor(s) or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

Business Auto Policy (BAP). Contractor shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit not less than \$1,000,000 per accident. Such insurance shall cover liability arising out of "Any Auto". Business auto coverage shall be written on ISO form CA 00 01, or substitute liability form providing equivalent coverage. If necessary the policy shall be endorsed to provide contractual liability coverage and cover a "covered pollution cost or expense" as provided in the 1990 or later editions of CA 00 01. Contractor waives all rights against State for the recovery of damages to the extent they are covered by business auto liability or commercial umbrella liability insurance

G-161 Agents

The State's rights and duties will be exercised by the Region Manager. The Region Manager will notify Contractor in writing who is responsible for administering the contract. The Region Manager has sole authority to waive, modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the forest products harvested beyond the terms of this contract.

Contractor is required to have a person on site during all operations who is authorized to receive instructions and notices from the State. Contractor shall inform the State in writing who is authorized to receive instructions and notices from the State, and any limits to this person's authority.

G-170 Assignment and Delegation

Contractor shall assign no rights or interest in this contract without prior written permission of the State. Any attempted assignment shall be void and ineffective for all purposes unless made in conformity with this paragraph. Contractor may perform any duty through a delegate, but Contractor is not thereby relieved of any duty to perform or any liability. Any assignee or delegate shall be bound by the terms of the contract in the same manner as Contractor.

G-180 Modifications

Waivers, modifications, or amendments of the terms of this contract must be in writing signed by Contractor and the State to become effective.

G-181 Contract Modification for Protection of Resources and Improvements

The Harvesting Services contract may be unilaterally terminated or modified by the State upon determination that the Contractor's operations would cause serious damage to resources or improvements, or would be significantly inconsistent with State land management plans

In the event of contract modification under this section and through no fault of Contractor operations, the Contractor shall be reimbursed for any additional operations required, provided that any work or extra protection shall be subject to prior approval of the State.

G-190 Contract Complete

This contract is the final expression of the Parties' agreement. There are no understandings, agreements, or representations, expressed or implied, which are not specified in this contract.

G-201 Notices

Notices required to be given by the State under the following clauses shall be in writing and shall be delivered to the Contractor's authorized agent or sent by certified mail to the Contractor's post office address, so that their receipt may be acknowledged by Contractor.

- G-032 Commencement Date
- G-092 Harvest Area Boundary Adjustment
- G-181 Contract Modification for Protection of Resources and Improvements
- G-211 Violation of Contract
- G-221 State Suspends Operation
- D-015 Delivered Mis-sorted Logs and Penalties
- D-016 Damages for Delivered Mis-manufactured Logs

All other notices required to be given under this contract shall be in writing and delivered to the authorized agent or mailed to the party's post office address. Contractor agrees to notify the State of any change of address.

G-205 Prevention of Damage and Consequences of Contractor-Caused Damage

The Contractor agrees to exercise due care and caution at all times to avoid damage to all special resources including environmentally sensitive areas, research, demonstration, and cultural objects or areas. Additionally, the Contractor agrees to protect all improvements on State property affected by the work of this contract including, but not limited to, roads, culverts, bridges, ditches, fences, utility lines, and buildings.

If damages occur due to the Contractor's operations, the Contractor shall be responsible for damage or restoration costs, or other compensation measures as described in this contract. State may deduct damage or restoration costs from payments to the Contractor. This clause shall not relieve the Contractor from other applicable civil or criminal remedies provided by law.

G-211 Violation of Contract

- a. If Contractor violates any provision of this contract, the Contract Administrator, by written notice, may suspend those operations in violation. If the violation is capable of being remedied, the Contractor has fifteen (15) days after receipt of suspension notice to remedy the violation. If the violation cannot be remedied or Contractor fails to remedy the violation within fifteen (15) days after receipt of a suspension notice, the State may terminate the rights of the Contractor and collect liquidated damages under this contract associated with the breach. In the event of such a contract termination, the State may demand all or part of the Contractor's surety in order to satisfy the State's damages.
- b. The State has the right to remedy a breach if Contractor is unable, as determined by the State, to remedy the breach, or if the Contractor has not remedied the breach within 15 days of a suspension notice. Any expense incurred by the State in remedying Contractor's breach may be charged to Contractor, or State may deduct

such expenses from payments to the Contractor.

c. If the contract expires without the Contractor having performed all their duties under this contract, Contractor's rights and obligations to harvest, deliver forest products, and perform any additional contract-related requirements are terminated. Thus, Contractor cannot remedy any breach once this contract expires. This provision shall not relieve Contractor of any financial obligations and unresolved contractual agreements, including payment to sub-contractors for work performed under this contract.

G-221 State Suspends Operations

The Contract Administrator may suspend any operation of Contractor under this contract when the State is suffering, or there is reasonable expectation the State will suffer environmental, monetary or other damage if the operation is allowed to continue.

Contractor shall be in breach of this contract if the operation continues after the suspension notice or if the operation resumes prior to approval and notice from the Contract Administrator.

Contractor may request a modification of suspension within seven (7) calendar days of the start of suspension through the dispute resolution process. If this process results in a finding that the suspension exceeded the time reasonably necessary to stop or prevent damage to the State, Contractor may request a contract term adjustment based on the number of excess days of suspension.

G-230 Trespass and Unauthorized Activity

Any cutting, removal, or damage of forest products by Contractor, its employees, agents, or invitees, including independent contractors, in a manner inconsistent with the terms of this contract or State law, is unauthorized. Such activity may subject Contractor to liability for triple the value of said forest products under RCW 79.02.320 or RCW 79.02.300 and may result in prosecution under RCW 79.02.330 or other applicable statutes.

G-250 Compliance with All Laws

Contractor shall comply with all applicable statutes, regulations and laws, including, but not limited to, all Department of Labor and Industry laws, and Contractor shall submit documentation from Washington State Departments of Labor and Industries and Revenue that all obligations concerning worker compensation and safety will be met.

G-241 Dispute Resolution

The following procedures apply in the event of a dispute regarding interpretation or administration of this contract and the parties agree that these procedures must be followed before a lawsuit can be initiated.

- a. In the event of a dispute, Contractor must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Contractor's request within five business days.
- c. Within five business days of receipt of the Region Manager's decision, the contractor may make a written request for resolution to the State Lands Steward of the Department of Natural Resources.
- d. Unless otherwise agreed, the State Lands Steward will hold a conference within 15 calendar days of the receipt of Contractor's request for review of the Region Manager's written decision. Contractor and the Region Manager will have an

opportunity to present their positions. The State Lands Steward will issue a decision within a reasonable time of being presented with both Parties' positions.

G-260 Venue

The laws of the State of Washington shall govern this contract. In the event of a lawsuit involving this contract, venue shall be proper only in Thurston County Superior Court.

G-270 Equipment Left on State Land

All equipment owned or in the possession of Contractor, its employees, agents, or invitees, including independent contractors, shall be removed from the sale area and other State land by the termination date of this contract. Equipment remaining unclaimed on State land 30 days after the expiration of the contract period is subject to disposition as provided by law. Contractor shall pay to the State all costs of moving, storing, and disposing of such equipment. The State shall not be responsible for any damages to or loss of the equipment or damage caused by the moving, storing or disposal of the equipment.

G-280 Operating Release

An operating release is a written document, signed by the State and the Contractor, indicating that the Contractor has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Contractor and State may agree to an operating release for this sale, or portion of this sale, prior to the contract expiration, when all contract requirements pertaining to the release area have been satisfactorily completed. Upon issuance of a release, Contractor's right to cut and remove forest products on the released area will terminate.

G-310 Road Use

The Contractor is authorized to use the following State roads, and roads for which the State has acquired easements and road use permits; E393610A, E393616E, E393616F, E393616H, E393616J, E393616K, E393616L, E393616M, E393616N, E393616P, E393616Q, E393616R, E393616S, E393616T, E393616U. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

Contractor shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Contractor before beginning any operations. To the extent that the plan of operations is inconsistent with the contract, the terms of the contract shall prevail. State's acceptance and approval of Contractor's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Contractor's purposes or complies with applicable laws.

We will have a pre-work meeting before both harvest and thinning begins.

G-340 Surveys and Markers Preservation

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Contractor shall, at the Contractor's own expense, re-establish them through a licensed land surveyor in accordance with U.S. General Land Office standards. Corners and/or witness objects that must be disturbed or destroyed in the process of road construction or logging shall be adequately referenced and/or replaced in accordance with RCW 58.24.040(8). Such references must be approved by the Contract Administrator prior to removal of said corners and/or witness objects.

G-370 Blocking Roads

Contractor shall not block any Road(s) related to this proposal, unless authority is granted in writing by the Contract Administrator.

G-430 Open Fires

The Contractor its employees or its subcontractors shall not set or allow to be set any open fire at any time of the year without first obtaining permission in writing from the Contract Administrator.

Section P: Payments and Securities

P-026 Payment For Harvesting and Hauling Services

The State shall pay Contractor for harvesting and hauling services at the following rates:

<u>Payment for Harvesting Stump to Truck:</u> \$ Bid Rate/ton for merchantable sorts, including utility sorts.

Payment Rates for Hauling: Haul rates will be determined using the following formula:

Payment = Base Rate + Mileage Rate

Base Rate = \$2.10 per ton Mileage Rate = (\$0.13 per ton per C mile) + (\$0.11 per ton per A mile) 2 "C" Miles will be paid for this Contract.

Travel distances and road classification miles to each log sort destination will be determined by the State and represents the one-way travel distance from the sale area to the purchaser's delivery point.

Prior approval by the State is required for payment of any additional transportation charges, including round trip tolls, incurred by Contractor.

The state shall approve all haul routes and determine travel distances prior to contractor delivery of logs to specified destinations.

The Contractor is responsible for billing the State for harvesting and hauling services performed using load data collected by State approved third party scaling organizations and reported by the State designated Log and Load Reporting Service. The billing statement shall include itemized accounts and summaries of harvesting tonnage and hauling mileage charges in a format approved by the State. The billing schedule shall be the 1st and the 15th of each month with payment due by State within fourteen (14) days. Reporting periods end on the 14th and the end of each month.

No certificate given or payment made shall be evidence of the satisfactory performance of the Contract, either wholly or in part, against the claim of the State to the contrary, and no payment shall be construed to be an acceptance of any defective work, which may before or afterwards appear.

P-027 Payment For Road Construction

The State shall pay Contractor for roadwork completed at the following rates:

Road or Structure	Stations	\$/Station		
E393610A (25+37 - 30+76)	5.39	\$120.00		
E393610A (30+76 - 34+96)	4.20	\$240.00		
E393610A (34+96 - 35+31)	0.35	\$120.00	MOBILIZATION	\$920.00
E393610A (35+31 - 36+09)	0.78	\$240.00		
E393610A (36+09 - 36+64)	0.55	\$4,361.34	LIGHT BRUSHING	\$40.00

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E393610A (36+64 - 37+54)	0.90	\$240.00	MEDIUM BRUSHING	\$60.00
E393610A (37+54 - 38+02)	0.48	\$120.00	LIGHT RECONSTRUCTION	\$80.00
E393610A (38+02 - 38+60)	0.58	\$2,034.00	MEDIUM RECONSTRUCTION	\$200.0
E393610A (38+60 - 39+17)	0.57	\$120.00	MEDIUM CONSTRUCTION	\$500.0
E393610A (39+17 - 39+56)	0.39	\$240.00	HEAVY CONSTRUCTION	\$1,000.0
E393610A (39+56 - 40+32)	0.76	\$120.00	LIGHT ABANDONMENT	\$100.0
E393610A (40+32 - 40+92)	0.60	\$2,034.00	HEAVY ABANDONMENT	\$300.0
E393610A (40+92 - 44+01)	3.09	\$120.00	Rocking 9" surfacing	\$1,914.0
E393610A (44+01 - 44+98)	0.97	\$4,158.00	Rocking 18" surfacing	\$4,038.0
E393610A (44+98 - 46+12)	1.14	\$4,278.00		
E393610A (46+12 - 46+54)	0.42	\$240.00		
E393610A (46+54 - 136+89)	90.35	\$120.00	Fabric	\$83.3
,				·
E393616E (0+00 - 6+20)	6.20	\$140.00	Culvert Removal/Bridge Install	\$45,000.00
(0 10 1)			12' livestock gate	\$146.82
E393616F (0+00 - 17+38)	17.38	\$140.00	16' livestock gate	\$177.60
(0.000)		***************************************	gara gara	*******
E393616H (0+00 - 8+44)	8.44	\$140.00		
(0 100 0 11)		¥ 1 1 3 1 3 1		
E393616J (0+00 - 15+15)	15.15	\$140.00		
20000100 (0.00 10.10)	10110	ψ1 10.00		
E393616K (0+00 - 20+61)	20.61	\$140.00		
200001011 (0100 20101)	20.01	ψ1 10.00		
E393616L (0+00 - 7+94)	7.94	\$140.00		
20000102 (0:00 7:01)	7.10.1	ψ1 10.00		
E393616M (0+00 - 2+48)	2.48	\$140.00		
2000010111 (0100 2110)	2.10	ψ110100		
E393616N (0+00 - 2+98)	2.98	\$140.00		
200001014 (0100 2100)	2.00	ψ110.00		
E393616P (0+00 - 35+27)	35.27	\$140.00	-	
23330101 (0100 33121)	33.21	ψ140.00		
E393616Q (0+00 - 13+66)	13.66	\$140.00	7	
23330100 (0100 13100)	10.00	ψ140.00		
E393616R (0+00 - 13+45)	13.45	\$140.00	-	
23930101((0+00 - 13+49)	10.40	ψ140.00		
E393616S (0+00 - 5+46)	5.46	\$140.00	-	
<u> </u>	3.40	\$140.00		
E393616T (0+00 - 3+97)	3.97	\$140.00	-	
\			+	
E393616T (3+97 - 9+68)	5.71	\$500.00	+	
E393616T (9+68 - 33+03)	23.35	\$140.00		
E393616U (0+00 - 16+64)	16.64	\$140.00		

TOTAL COST \$101,807.06

Upon completion of road construction, the Contractor shall submit a report identifying the road(s), and the number of stations which have been completed to the Contract Administrator. Once the Contract Administrator has approved the roadwork in writing, the Contractor is responsible for billing the State for road construction services performed. The billing statement shall include an itemized account of the road(s), the number of stations and which stations have been completed. The Contractor Administrator will verify that road construction described on the billing statement is complete prior to State making payment to Contractor. The billing schedule shall be the 1st and the 15th of each month with payment due by State within fourteen (14) days. Reporting periods end on the 14th and the end of each month.

No certificate given or payment made shall be evidence of the satisfactory performance of the Contract, either wholly or in part, against the claim of the State to the contrary, and no payment shall be construed to be an acceptance of any defective work, which may before or afterwards appear.

P-091 Performance Security

As a guarantee of the performance of the provisions of this contract, including all damages accrued to the State by reasons of the operations under this contract and Contractor's failure to perform, the Contractor agrees to deliver herewith one or more State approved performance securities (cash, savings account assignment, certificate of deposit assignment, irrevocable standby letter of credit, or a Miller Act bond) for \$50,000; however, at least 50% must be in a form other than a bond, unless otherwise agreed to by the State. The performance security held by the State shall guarantee the performance of all obligations of the Contractor under the Harvesting Services Contract. In addition, said security may be used by the State to satisfy any claims or liens made by Contractor's subcontractors, material providers, or other individuals against the State or its Purchasers, which arise from this Harvesting Services Contract.

If at any time the State decides that this security has become unsatisfactory, the Contractor agrees to suspend operations and, within fifteen (15) days of notification, to replace the security with one acceptable to the State. The State may also require increases to the existing performance security at any time.

P-100 Performance Security Reduction

The State may reduce the performance security if it determines that adequate security exists for any remaining obligations of Contractor. Prior to any reduction of the performance security amount, the Contractor shall make a written reduction request that explains why the Contractor believes the additional security is unnecessary. No reduction will be allowed by the State unless such reduction can be made while fully protecting the State's interests.

Section L: Log Definitions and Accountability

L-010 Merchantable Forest Products

Merchantable forest products are logs or parts of logs as defined by the requirements for the lowest sawmill grade of the standard log scaling rules applicable to this contract. Logs or parts of logs not meeting merchantable forest products minimum requirements are considered utility logs. Logs that do not meet minimum utility specifications are considered cull logs.

Non-merchantable logs are logs not meeting the minimum merchantability requirements of the scaling rules as designated for this harvesting contract.

L-013 Log Sorts Delivered to Incorrect Destination

Each Purchaser has only agreed to purchase the log sort (s) described in the G-022 clause. In the event a load of logs from a sort not meeting the log sort is mis-delivered to Purchaser, Purchaser may reject the load. If Purchaser receives a mis-delivered load, Contractor shall notify the State within 24 hours. The Contractor will maintain responsibility for proper disposition and delivery of such load of logs.

L-060 Log Load Tickets

Contractor shall complete and use load tickets as directed by the Contract Administrator and, if required, use other identification as directed by the State to ensure accounting of forest products removed from the sale area. A load ticket must be fixed, as designated by the Contract Administrator, to each truck and trailer load prior to leaving the landing.

Contractor shall account for all load tickets issued by the Contract Administrator. The State may treat load tickets not accounted for as lost forest products. All costs

associated with computing the billings for lost loads shall be borne by Contractor.

L-110 State Approval of Log Scaling and Weighing Locations

Measurement and weighing facilities required by this contract must be approved by the State. Forest products sold shall be scaled, measured, or counted by a State approved third party log scaling organization.

Prior to logs being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and weighing facilities that are at or en route to final destinations. Logs from this sale shall be measured and weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State contractors or employees, State scalers and equipment at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

L-114 State Approval of Haul Route

The Contractor shall file with the Contract Administrator and Contract Administrator shall approve a map showing the haul route, which unscaled and unweighed logs will travel from the harvest area to the weighing/scaling location and approved destinations. The Contractor must notify Contract Administrator within 24 hours of any deviation from the haul route. The route of haul may be changed by prior agreement of the State and the Contractor. The Contract administrator must be notified by the Contractor of any overnight stays of an unscaled or unweighed load of logs.

Section H: Harvesting Operations

H-012 Leave Tree Damage Definition

Leave tree damage exists when one or more of the following criteria are satisfied as a result of Purchaser's operation:

- a. A leave tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 144 square inches.
- b. A leave tree's top is broken or the live crown ratio is reduced below 30 percent.
- c. A leave tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

Excessive leave tree damage is established when more than 5 percent of the leave trees in a setting are damaged (see clause D-040). The Contract Administrator will identify the damaged trees.

H-014 Skid Trail Damage

A skid trail is defined as an area that is used to skid logs for more than three passes by any equipment.

- a. Skid trail will not exceed 14 feet in width, including rub trees.
- b. Skid trails shall not cover more than 5% percent of the total acreage on each unit.
- c. Skid trails will be pre-approved by the Contract Administrator.
- d. Except for rub trees, skid trails shall be felled and yarded prior to falling adjacent timber.
- e. Excessive skid trail damage is not permitted. Skid trail damage is considered excessive when more than 10% percent of active trail has ruts greater than 4 inches in depth.

- f. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.
- g. Rub trees along the skid trail will be left standing until all the timber tributary to the skid trail has been removed.
- h. Contractor shall not deviate from the requirements set forth in this clause without prior written approval from the contract administrator.

Violation of any part of this clause will be cause to revoke the Contractor's rights to harvest and to enter the sale area.

H-030 Timber Falling

Trees shall be felled and logs shall be bucked to obtain the greatest practicable utilization of merchantable forest products.

H-035 Fall Trees Into Sale Area

Trees shall be felled into the sale area unless otherwise approved by the Contract Administrator.

H-053 Branding and Painting

The State shall provide a State of Washington registered log brand. Contractor must brand and paint all logs removed from the harvest area in a manner that meets the requirements of WAC 240-15-030(2)(a)(i). All logs removed from the harvest area designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

Both ends of all saw logs must be marked with a minimum diameter spot of durable red paint, prior to removal and any log end 10 inches and greater in diameter must be hammer branded with a legible log brand.

Hew and Pulp logs are exempt from full marking requirements. Instead, they require a minimum of 25 percent of the logs on each end of the load to be painted and a minimum of 3 legible log brands to be applied on each load end.

H-110 Stump Height

Trees shall be cut as close to the ground as practicable. Stump height shall not exceed 12 inches in height measured on the uphill side, or 2 inches above the root collar, whichever is higher.

H-121 Harvesting Equipment and Methods

Forest products harvested under this contract shall be removed using rubber and/or tracked type equipment, unless the authorized use of other methods or equipment is granted in writing by the State.

H-140 Special Harvest Requirements

Contractor shall accomplish the following after the harvest operations:

Contractor shall thin understory using a hand crew. Thinning will occur in all units. Approximately acreage is 190-200 acres. Spacing of non-merchantable trees after harvest will be 12'-18'. Preferred leave trees in descending order are: PP, WL, WRC, DF & GF. Leave trees should exhibit good form, vigor and be free of disease. A prework meeting will be held between hand crew and State Contract Administrator before thinning occurs.

Contractor will have to install a bridge on the Martin Cr. crossing. The contractor will have to buy the bridge and have it installed by <u>July 31, 2007</u>. Contract harvester will receive payment of the bridge upon delivery on site. Temporary culvert will be

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installed and rocked before hauling can begin. Permission to do otherwise must be granted in writing by the Contract Administrator.

H-151 Required Removal of Forest Products

Contractor shall remove from the sale area and present for scaling all merchantable forest products that scale at least 10 board feet net volume and are at least 12 feet in length from the large end to a 4-inch scaling diameter, unless directed otherwise by the Contract Administrator.

The State may treat failure to remove forest products left in the sale area that meet the above specifications as a breach of this contract. The Contractor shall be responsible for forest products not removed. At the State's option, the State or a third party scaling organization may scale forest products, for volume, that meet the above specifications and are left in the sale area. State may deduct the value of forest products not removed from payments to the Contractor for harvesting services rendered. All costs associated with scaling and computing the billing for forest products left in the sale area will be borne by Contractor.

H-161 Excessive Timber Breakage

The Contractor shall be responsible for felling and yarding timber in a manner that shall minimize breakage and maintain stump heights within contract specifications, unless permission to do otherwise is agreed to by the Contract Administrator.

The State may treat excessive timber breakage, as determined by the Contract Administrator as a breach of this contract. At the State's option, the State or a third party scaling organization may scale forest products, for volume. State may deduct the value of forest products damaged through excessive breakage from payments to the Contractor for harvesting services rendered. All costs associated with scaling and computing the billing for forest products damaged through excessive breakage will be borne by Contractor.

H-190 Completion of Settings

Operations begun on any setting of the sale area shall be completed before any operation begins on subsequent settings unless authorized in writing by the Contract Administrator.

H-230 Tops and Limbs Outside the Sale Boundary

Tops and limbs outside the sale boundary as a result of Contractor's operation shall be removed concurrently with the yarding operation unless otherwise directed by the Contract Administrator.

H-240 Lop & Scatter

The tops of all felled trees **in all units** shall be lopped and slash scattered away from leave trees.

H-260 Fall Leaners

Non-merchantable trees that have been pushed over in falling or skidding operations shall be felled after harvest or during thinning operations.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the road plan for the Martin FI Timber Sale, dated 03/20/2006, are hereby made a part of this contract. The Department may make modifications to the Road Plan made necessary by unforeseen conditions. Any modifications that create additional work for the Contractor shall be paid in accordance with the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia.

C-051 Maintenance and Repair

Contractor shall perform maintenance and repair on all roads to prevent damage to the subgrade, to maintain proper drainage and to keep the road surface smooth and crowned. The roads shall meet the original construction or reconstruction specifications at contract termination.

C-081 Landing Location Approval

Landing locations shall be marked by the Contractor and approved by the Contract Administrator prior to construction.

C-130 Dust Abatement

Contractor shall abate (water) the dust on the E393610A private stretch of road next to homestead.

Section S: Site Preparation and Protection

S-010 Fire Hazardous Conditions

Contractor agrees to use its best efforts to minimize the risk of fire.

S-020 Extreme Hazard Abatement

Contractor shall provide a written Extreme Hazard Abatement plan that meets the requirements of WAC 332-24 prior to the beginning of logging operations. The plan must be acceptable to the Contract Administrator. The plan will identify how Contractor will accomplish abatement. Contractor shall also provide, and keep current, a written timetable for completion of all specified work in the plan. The Contract Administrator's acceptance and approval of Contractor's hazard abatement plan shall not be construed as any statement or warranty that the hazard abatement plan is adequate for Contractor's purposes or complies with applicable laws.

S-030 Landing Debris Clean Up

Landing debris shall be disposed of in a manner approved in writing by the Contract Administrator.

S-060 Pump Truck or Pump Trailer

The Contractor shall provide a fully functional pump truck or pump trailer equipped to meet the specifications of WAC 332-24-005 and WAC 332-24-405 during the "closed season" or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

S-070 Water Supply

Purchaser shall provide, during the "closed season", a water supply with a minimum capacity of 750 gallons for rapid filling of pump trucks or trailers at a location designated by the Contract Administrator.

S-130 Refuse Disposal

a. Solid and Hazardous Waste Regulatory Compliance.

Contractor shall meet applicable local, state, and federal solid and hazardous waste laws and regulations concerning the handling and disposal of hazardous materials and hazardous and solid waste, including, but not limited to, Chapters 70.93, 70.95, and 70.105 RCW and Resource Conservation and Recovery Act of 1976 (RCRA) 42 USC Section 6901, et seq.

b. Waste Disposal.

No hazardous or solid waste shall be disposed of by abandonment, burial, or burning on state land. All wastes, including petroleum stained soil on landings or other areas shall be removed from state land and be disposed of at a permitted solid or hazardous waste disposal facility.

c. Hazardous Materials Spill Prevention.

All operations shall be conducted in such a manner as to prevent the discharge of hazardous materials, including petroleum products, into water or air or onto ground.

Fuel tanks and other containers of hazardous materials shall be managed to prevent any drips, leaks or larger spills. Equipment seals, pressure lines, and other potential leak sources shall be maintained in good working condition to eliminate oil, hydraulic fluid, and other leaks.

Equipment maintenance activities, such as oil changes, shall be undertaken so that no oil or other hazardous materials reach the ground. Filters, batteries, and other equipment waste shall be deposited in barrels or otherwise temporarily stored to prevent the leaking of oil, acid, or other hazardous liquids onto the ground.

d. Spill Reporting.

The Contractor shall take immediate action to contain and control all spills.

Any spill that may be a threat to human health or the environment shall be reported immediately to the Department of Ecology and the Contract Administrator. Other spills shall be reported to the Contract Administrator.

S-140 Fence Repair

Contractor shall immediately repair all fence damage resulting from operations on this sale to an equal or better condition than existed at the time of sale.

Section D: Damages

D-011 Liquidated Damages

The following clauses in the DAMAGES section of this contract provide for the State's payments to the Contractor to be reduced for certain breaches of the terms of this contract. These offsets are agreed to as liquidated damages for the Contractor's breach, and are not penalties. They are reasonable estimates of anticipated harm to the State caused by the Contractor's breach. The State and Contractor agree to these liquidated damages provisions with the understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Contractor by allowing the Contractor to better assess its responsibilities under the contract.

D-015 Damages for Delivered Mis-sorted Logs

Logs delivered by Contractor that do not meet the receiving Purchaser's log sort and merchantable specifications as described in clause G-022, where species are mixed, or are over 1" out of tolerance of scaling diameter, and logs not meeting the minimum merchantability requirements as designated for this contract, are considered mis-sorts.

Mis-sorted log volume will be considered on a per load basis. When mis-sorts amount to more than 5% of a load's total volume, as determined by a third party scaling

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organization, the State is harmed and an adjustment to the Contractor's harvesting payment shall be made. For the improper delivery of mis-sorted logs, the State shall reduce the harvesting payment by \$100.00 for each load delivered which contained mis-sorted volume in excess of 5%, as documented by third party scaling ticket.

D-016 Damages for Delivered Mis-manufactured Logs

Logs delivered by Contractor that do not meet the receiving Purchaser's preferred log length specifications as described in clause G-022, and logs not meeting minimum log quality specifications for sweep, peeler sorts, untrimmed limbs and knots, and blue stain as described in the G-024 clause are considered mis-manufactured logs.

Mis-manufactured log volume will be considered on a per load basis. When mismanufactured logs amount to more than 5% of a loads total volume, as determined by a third party scaling organization, the State is harmed and an adjustment to the harvesting payment shall be made. For the delivery of mis-manufactured logs, the State shall reduce the harvesting payment due to the Contractor by an amount of \$100.00 for each load delivered which has been determined to contain mis-manufactured volume in excess of 5% as documented by third party scaling ticket.

D-023 Damages for Failure to Remove Forest Products

The Contractor's failure to remove all of the forest products specified prior to the expiration of the contract operating authority results in substantial injury to the State. The value of the forest products sold at the time of breach is not readily ascertainable. The Contractor's failure to perform disrupts the State's management plans in the project area, the actual cost of which is difficult to assess. A re-offering of the contract involves additional time and expense and is not an adequate remedy. Therefore, the Contractor agrees to accept a reduction of the amount due for harvesting services from the State in the amount calculated according to the following guidelines:

- a. Full stumpage value will be assessed for felled trees, individual or scattered standing trees, or clumps of standing trees less than three acres in size, plus all costs associated with scaling and computing the stumpage value of the forest products left.
- b. 35% of full stumpage value will be assessed for clumps of standing trees greater than three acres in size, plus all costs associated with scaling and computing the stumpage value of the forest products left.

The stumpage value of forest products left shall be determined by the State or a third party scaling organization utilizing whatever method(s) best suited for accurate volume and acreage measurement as determined by the State.

D-024 Damages for Excessive Timber Breakage

Excessive breakage of timber results in substantial injury to the State. The value of the forest products sold at the time of breach is not readily ascertainable. Therefore, the Contractor agrees to accept a reduction of the amount due for harvesting services from the State at an amount calculated according to the following:

The value for excessive timber breakage will be determined at a rate, which reflects the log sort price that the Purchasers would have paid for unbroken logs minus the cost of delivery, plus all costs associated with scaling and computing the stumpage value of the forest products excessively broken.

The stumpage value of forest products excessively broken shall be determined by the State or a third party scaling organization utilizing whatever method(s) best suited for accurate volume measurement as determined by the State.

D-034 Inadequate Log Accountability

Removal of forest products from the sale area without adequate branding and/or valid load tickets attached to the load, weighing or scaling forest products in a location other than the facilities authorized for use for this sale, and failing to deliver load ticket to the weighing/scaling official all result in substantial injury to the State. The potential loss from not having proper branding, ticketing, weighing locations and accountability is not readily ascertainable. These contractual breaches result in a loss of load and weighting/scaling data the potential for the removal of forest products for which the State receives no payment, and cause increases in the State's administration costs associated with this contract. The actual costs of these breaches are difficult to assess.

For these reasons, Contractor's payments for harvesting under this contract will be reduced in the following amounts, as liquidated damages, to compensate the State for these breaches: a sum of \$100.00 each time a load of logs does not have branding as required in the contract, \$250.00 each time a load of logs does not have a load ticket as required by the contract, \$250.00 each time a load ticket has not been filled out as required by the plan of operations, \$250.00 each time a load is weighed at a facility not approved as required by the contract, and \$250.00 each time load and weight scale data is not presented to the weighing/scaling official.

D-040 Timber- Payment for Excessive Leave Tree Damage

Contractor shall exercise due care and caution at all times to avoid damaging residual timber. When Contractor operations exceed the damage limits set forth in this contract, the trees damaged results in substantial injury to the State. The value of the damaged leave trees at the time of the breach is not readily ascertainable. Therefore, Contractor agrees to pay the State as liquidated damages at the rate of \$500 per tree for all damaged trees in the setting.

IN WITNESS WHEREOF, the Parties hereto have entered into this contract. The State agrees to pay for and the Contractor agrees to provide timber harvesting, road construction, weighing and/or scaling, and hauling services as specified under the terms of this Harvesting Services Contract.

	STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES
[Contractor Name here] Contractor	[Region Manager Name here] [Region Name here] Regional Manager
Date:	Date:
Address: [Contractor Address here]	

CORPORATE ACKNOWLEDGEMENT

STATE OF _)	
COUNTY OF)	
	day of	, 20, before me personally
		to me known to be the of the corporation
free and voluntary and on oath stated	act and deed of the corpor	ament and acknowledged said instrument to be the ration, for the uses and purposes therein mentioned, ere) authorized to execute said instrument and that corporation.
IN WITNESS WH year first above w		set my hand and affixed my official seal the day and
		Notary Public in and for the State of
		My appointment expires

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

ROAD PLAN

AGREEMENT NUMBER: 30-078915

SALE NAME: Martin FI Sorts ROAD PLAN DATE: March 20, 2006

SCOPE OF PROJECT

This project includes, but is not limited to construction including; clearing; grubbing; right-of-way debris disposal; excavation and/or embankment to subgrade, acquisition and installation of drainage structures, drilling and blasting of rock in the course of right-of-way construction may be encountered.

DEFINITIONS

Construction

Where in the terms of this contract the activity of building a new right of way and road over ground that has not had a previously established road, or is a relocation that is at least a full right of way width from an existing road.

Reconstruction

Where in the terms of this contract the activity of right of way development and road building in a location that lies completely or partially within the right of way of an existing road and which activity is required or recommended to improve upon the pre-existing conditions. Reconstruction includes activities that would be classified as a **Class II**, **Class III or Class IV Special Forest Practice.**

Pre-haul Maintenance

Where in the terms of this contract the activity of right of way development and road building in a location that lies completely or partially within the right of way of an existing road and which activity is required or recommended to improve upon the pre-existing conditions. Pre-haul maintenance includes activities that would be classified as a **Class 1 Forest Practice.**

Maintenance

Where the pre-existing conditions of an existing road were acceptable to the State prior to this contract, and the repair and/or replacement of materials, components or structures become necessary as result of deterioration by use or inordinate damage during the terms of this contract.

Designated Skid Trail

Where the State has marked a preferred location for the forwarding of valuable materials to an established road or landing, and which alternatives to the designated location require approval from the Contract Administrator.

Abandonment

Where in the terms of this contract the activity of blocking, controlling the erosion and water movement within natural drainages, removing all drainage structures, and removing unstable fill slopes that have delivery potential. This activity may include but is not limited to obliteration of road prisms, haying and revegetation of exposed soils, and scattering of natural debris.

SECTION 1 - GENERAL CLAUSES

1.1 Clauses in this plan apply to all construction and/or reconstruction, including landings unless otherwise noted.

1.2 Construction, reconstruction, pre-haul maintenance, and abandonment of the following road/s are required. All road/s shall be constructed on the State's location, and in accordance with this Road Plan.

	<u>Length</u>	Road
truction	510A 111.52 stations	E393610A
truction	616E 6.20 stations	E393616E
truction	516F 17.38 stations	E393616F
truction	516H 8.44 stations	E393616H
truction	516J 15.15 stations	E393616J
truction	516K 20.61 stations	E393616K
truction	516L 7.94 stations	E393616L
truction	516M 2.48 stations	E393616M
truction	516N 2.98 stations	E393616N
truction	516P 35.27 stations	E393616P
truction	516Q 13.66 stations	E393616Q
truction	516R 13.45 stations	E393616R
truction	516S 5.46 stations	E393616S
truction	33.03 stations	E393616T
action	516T 5.71 stations	E393616T
truction	516U 16.64 stations	E393616U
tructio tructio tructio tructio tructio tructio tructio tructio tructio tructio	516J 15.15 stations 516K 20.61 stations 516L 7.94 stations 516M 2.48 stations 516N 2.98 stations 516P 35.27 stations 516Q 13.66 stations 516R 13.45 stations 516S 5.46 stations 516T 33.03 stations 516T 5.71 stations	E393616J E393616K E393616L E393616M E393616P E393616P E393616R E393616S E393616T E393616T

1.4 This sale also includes, but is not limited to reconstruction including;

<u>ROAD</u> E393610A	<u>STATIONS</u> 25+37 – 136+89	REQUIREMENTS Brush right of way, reshape road surface, apply rock to road prism, install/clean culverts and ditches, install/reshape rolling dips.
E393616E	0+00 - 6+20	Brush road prism, reshape road surface, apply for drainage.
E393616F	0+00 - 17+38	Brush road prism, reshape road surface, apply for drainage.
Е393616Н	0+00 - 8+44	Brush road prism, reshape road surface, apply for drainage.
E393616J	0+00 - 15+15	Brush road prism, reshape road surface, apply for drainage.
E393616K	0+00 - 20+61	Brush road prism, reshape road surface, apply for drainage.
E393616L	0+00 – 7+94	Brush road prism, reshape road surface, apply for drainage.
E393616M	0+00 – 2+48	Brush road prism, reshape road surface, apply for drainage.
E393616N	0+00 – 2+98	Brush road prism, reshape road surface, apply for drainage.
E393616P	0+00 - 35+27	Brush road prism, reshape road surface, apply for drainage.
E393616Q	0+00 - 13+66	Brush road prism, reshape road surface, apply for drainage.

E393616R	0+00 - 13+45	Brush road prism, reshape road surface, apply for drainage.
E393616S	0+00 - 5+46	Brush road prism, reshape road surface, apply for drainage.
E393616T	0+00 - 3+97 9+68 - 33+03	Brush road prism, reshape road surface, apply for drainage.
E393616U	0+00 - 16+64	Brush road prism, reshape road surface, apply for drainage.

- 1.6 If the Contractor desires a road location or design change, a revised Road Plan shall be submitted to the State for consideration.
- 1.7 On this plan, quantities are minimum acceptable values. Additional quantities required by the State because of hidden conditions, or the Contractor's choice of construction season or techniques shall be at the Contractor's expense. Hidden conditions include, but are not limited to, solid subsurface rock, subsurface springs or saturated ground, and/or unstable soil conditions.
- 1.8 Contractor shall not use roads constructed or reconstructed under this Road Plan for hauling, other than timber cut on the right-of-way, without written approval from the Contract Administrator.
- 1.9 Roads shall be constructed using track mounted hydraulic or cable excavators unless otherwise authorized, in writing, by the Contract Administrator.
- 1.10 Pioneering shall not extend past construction that will be completed during the current construction season. Drainage shall be provided on all uncompleted construction, as approved in writing by the Contract Administrator.

Clearing and grubbing shall be completed prior to starting excavation and embankment.

Culvert placement in live streams shall precede embankment where culverts are to be placed along natural ground slopes. Temporary diversion culverts shall be provided when designed culverts are elevated above natural ground within embankments.

Culverts shall be installed in completed subgrade as construction progresses.

Subgrade, ditches and culvert installation shall be completed and are subject to written approval by the Contract Administrator prior to the application of rock, or final subgrade compaction.

1.12 Construction restrictions apply to this contract. All construction and transportation of heavy equipment and/or trucks is prohibited between and including the following dates, except as may be authorized, in writing, by the Contract Administrator.

November 1 to June 1

- 1.13 Designated Skid Trails are included as part of this project. The intended uses of Designated Skid Trails are for transferring merchantable materials to/from/between landings and roads with log skidding equipment. The grades and location are not considered by the State to be suitable for truck traffic. Designated Skid Trails are considered, as part of this contract, to be single lane with one direction of traffic at a time, unless the Contract Administrator approves alternate traffic and width plans in writing.
- 1.14 Landings are required to be constructed at specific locations. The relocation of landings in the vicinity of those designated, and the use of additional landings in this project shall be subject to written approval from the Contract Administrator. Landings shall be sloped

- sufficiently to provide controlled drainage, without ponding or concentration of sediments into streams.
- 1.21 Maintenance on all road/s used, constructed or reconstructed under this Road Plan shall be performed in accordance with the Forest Access Road Maintenance Specifications.
 - Rutting of finished road surfaces shall not exceed 4 inches in depth. In the event that surface or base stability problems may persist, the contractor will be required to cease operations, or perform corrective maintenance and/or repairs, subject to specifications within this contract, and the written approval of the Contract Administrator.
- 1.23 Snowplowing shall not be permitted unless authorized, in writing, by the Contract Administrator.

SECTION 2 - CLEARING

- 2.1 Fell all vegetative material larger than 6 inches d.b.h., or over 20 feet high between the marked right of way boundaries, and within waste and/or debris areas. If clearing limits are not marked in the field, clearing limits are as specified on the Typical Section Sheet.
- 2.2 Deck all merchantable right-of-way timber. The decks shall be parallel to the road centerline, and within the cleared right-of-way. The decks shall be free of dirt, limbs and other debris, and removable by standard log loading equipment from the completed roadbed.
- 2.3 Brushing shall be done in accordance to the attached Brushing Detail. Brushing shall be achieved by manual or mechanical cutting of brush, trees and branches. Root systems and stumps of cut vegetation shall not be disturbed unless specified otherwise. Pulling, digging, pushing over, and other methods used for vegetation removal are not acceptable forms of brushing. The Contractor is required to submit a detailed list of equipment and methods to be used during brushing for approval by the Contract Administrator prior to commencing work.
- 2.4 Brushing specified within this contract requires only removing those trees greater than 6" DBH within the standard brushing limits and transition zones if banded on the side facing the road with red paint. Of those trees marked for removal, an "X" in red paint on the stump designates stumps that must be removed and scattered outside the transition zone.

SECTION 3 - GRUBBING

- 3.1 All stumps shall be removed that fall between grubbing limits shown on the Typical Section Sheet. Those with undercut roots shall be removed. Stumps over 22 inches in diameter shall be split. Stumps over 40 inches in diameter shall be quartered.
- 3.2 Grubbing Limits are defined as the entire area between the external limits shown on the Typical Section Sheet.
- 3.3 Removal of stumps shall not be required, within the waste and/or debris areas, provided that they are cut flush with the ground.

SECTION 4 - DEBRIS DISPOSAL AND REMOVAL

- 4.1 Right-of-way debris is defined as all nonmerchantable vegetative material larger than one cubic foot in volume, within waste area and/or clearing limits as shown on the Typical Section Sheet.
- 4.2 Right-of-way debris shall be piled. Debris piles shall be made to be burnable, clean, tight,

- and free of rock or soil material. Piles shall be made no closer than 20 feet to standing timber, and no higher than 10 feet. Dozer blades shall not be permitted for debris piling.
- 4.3 Debris piles shall be placed within the cleared right-of-way, or in natural openings, as designated by the Contract Administrator. Placement of debris piles outside of the right-of-way limits is subject to the written approval of the Contract Administrator.
- 4.4 Debris piles will be burned by the State.

SECTION 5 - EXCAVATION

5.1 Unless controlled by construction stakes or specific design sheets herein, road/s shall be constructed in accordance with dimensions shown on the Typical Section Sheet.

Excavation and embankment slopes shall be constructed to a uniform line, and left rough for easier vegetation.

Organic material shall be excluded from road prism embankments.

Road pioneering operations shall not undercut the final slope, deposit excavated material outside the clearing limits, or restrict drainage.

- 5.2 Contractor shall not bury merchantable material.
- 5.3 The construction of road grade and alignment shall conform to the State's marked location. The reconstruction of existing road grades shall conform to the original location except as directed by the contract administrator. Grade and alignment shall have smooth continuity, without abrupt changes in direction.

Construction limitations are as follows:

Favorable Grade	Adverse Grade	Minimum Curve Radius
18%	12%	60 feet

Changes in road grade shall not exceed 7%, except as required in this clause.

Adverse grades on curves shall not exceed 10 percent of the curve radius.

Favorable grades through switchbacks shall not exceed 12%.

Transition grades entering and leaving switchbacks shall not exceed a 5% grade change.

The switchback is defined as, the curved segment of road, between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees.

Transition grades required to meet switchback grade limitations, shall be constructed on the tangents preceding and departing from the switchbacks.

5.5 Curve widening shall be added to the inside of curves as follows:

2 feet extra 80 to 100 foot radius curves 4 feet extra 60 to 80 foot radius curves

- 5.7 Roads shall be built to the dimensions shown on the Typical Section Sheet.
- 5.8 Except as construction staked or designed, excavation slopes shall be constructed no steeper than shown on the following table:

Material Type

Excavation Slope Ratio

Common Earth (on side slopes to 55%)	1:1
Common Earth (55% to 70% side slopes)	3/4:1
Common Earth (on slopes over 70%)	1/2:1
Fractured or loose rock	1/2:1
Hardpan or solid rock	1/4:1

- 5.9 Excavation and embankment slopes shall be constructed to a uniform line and left rough for easier re-vegetation.
- 5.10 Except as construction staked or designed, each embankment side shall be widened as follows:

Height at Centerline	<u>Subgrade</u>	Widening

Less than 6 feet 2 feet 6 feet and over 4 feet

5.11 Except as construction staked or designed, embankment slopes shall be constructed no steeper than shown on the following table:

Material Type Embankment Slope Ratio

Common earth and rounded gravel	1-1/2:1
Angular rock	1-1/4:1
Sandy soils	2:1

- 5.12 All embankment and waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts, and routing excavation equipment over the entire width of each lift. Except for areas specifically requiring keyed embankment construction, side hill embankments too narrow to accommodate excavation equipment may be placed by end dumping or side casting until sufficiently wide to support the equipment.
- 5.14 Except as construction staked or designed, where side slopes exceed 45 percent, full bench construction shall be utilized for the entire subgrade width.
- 5.15 Waste material may be deposited adjacent to the road prism on side slopes up to 55 percent if the waste material is compacted, free of debris, and more than 50 feet away from live streams and/or culvert installations. On side slopes of 55 percent or more, all excavation shall be endhauled or pushed to designated embankment sites, except as approved in writing by the Contract Administrator. All waste embankments shall be compacted in horizontal layers not exceeding 2 feet.
- 5.24 Turnouts shall be constructed at a maximum distance of 1000 feet apart, unless shown otherwise on drawings. Turnouts shall be intervisible.
- 5.30 Subgrade Reinforcement shall be installed as part of this project to strengthen the subgrade base and/or reinforce the installation of large culverts. Reinforcement fabric shall be a minimum of 14 feet in width, and shall meet or exceed the properties of Polypropylene non-woven needle punch geo-textile 135g/sq. meter minimum.

See attached Rocklist for quantity.

Reinforcement is preferably accomplished by rolling subgrade fabric over the natural ground along the centerline of the road. Removal of organic material and small vegetation immediately under the fabric is usually not necessary. When culvert installations are concurrent at the site, culverts shall be positioned first to follow the natural ground, and the reinforcement fabric shall be positioned along prepared subgrade base and over top the

exposed pipes before construction of the embankment.

Where natural sideslopes are excessive, excavation is required to prepare a base where the ground sideslope through the road cross-section at the installation site/s shall not exceed 10%. Excavated material from preparation of the subgrade base shall not be placed as fill material beneath the fabric layer. In the area/s specified for installation, stumps may be flush-cut and remain in the ground.

Select ballast rock shall be placed directly on the fabric. Rock shall be angular, free from organic debris, and excess fine material. Rock shall be compacted in lifts, and shaped to conform to the requirements of this contract. Finished ballast depths over the fabric installation shall be increased, and transitions onto and off of the fabric installation decreased accordingly, to provide smooth transition over and across the sections of subgrade base reinforcement. The State reserves the right to require installation of reinforcement fabric in any area having unsuitable foundation conditions which become exposed during road construction, or large pipe installations and where required by the Contract Administrator. The following location/s specifically require reinforcement fabric.

<u>Road</u> <u>Stations</u> E393610A 36+09 – 36+64

SECTION 6 - DRAINAGE

- 6.1 Finished subgrade and running surfaces shall be sloped as shown on the Typical Section Sheet, uniform, firm, rut-free, and shaped to ensure road surface runoff in an even, unconcentrated manner.
- 6.2 Berms shall be removed from shoulders to permit water runoff. The construction of ditchouts will be required where ponding will result from the effects of sidecast debris and waste material.
- 6.4 Permanent culverts shall be installed as part of this contract. The minimum requirements shall be as designated on the Culvert and Drainage list, and the Road Plan map. Permanent culverts shall be supplied, installed, and maintained by the contractor during the limits of this contract.

Permanent culverts shall be galvanized (AASHTO Specification No. M36) or corrugated polyethylene tubing (AASHTO Specification No. M294 Type 'S') culverts as designated on the Culvert List.

Annular corrugated bands and culvert ends shall be used on metal culverts. Bands shall have a minimum width of 12 inches. Split coupler connectors shall be used for corrugated polyethylene tubing.

- 6.5 Metal, concrete, or plastic culverts and bands removed from the roadbed shall be removed from state land prior to termination of this contract.
- 6.10 On required roads, permanent culverts, downspouts, flumes, bands and gaskets as listed on the Culvert List which are not installed, shall remain the property of the State.
- 6.11 Culvert, downspout, flume and energy dissipater installation shall be in accordance with the Culvert and Drainage Specification Detail.
- 6.13 Any damaged galvanized coating or cut ends shall be treated with a minimum of 2 coats of zinc rich paint.

- 6.14 Cross drains and surface culverts on road grades in excess of 3 percent shall be skewed at least 30 degrees, from perpendicular to the road centerline.
 - Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3 percent nor more than 10 percent.
- 6.16 Installation of culverts 30 inches in diameter and over shall be subject to written approval by the Contract Administrator prior to commencing the backfill.
 - Pipe arches and/or multi-plate culverts shall be installed according to the National Corrugated Pipe Association Installation Manual, and are subject to the inspection and approval of the Contract Administrator prior to placement and backfill.
- 6.18 Outfalls from drainage structures shall not terminate directly on unprotected soil because of the potential for erosion. Downspouts, flumes and energy dissipaters shall be installed to prevent erosion, and are subject to the approval of the Contract Administrator.
 - Downspouts and flumes longer than 10 feet shall be staked on both sides at maximum intervals of 10 feet with 6-foot heavy-duty steel posts, and fastened securely to the posts with No. 10 galvanized smooth wire, in accordance with the Culvert and Flume Installation Detail.
- 6.20 Ditch reshaping, new ditch construction, and headwall construction shall be done concurrently with construction or reconstruction of the subgrade, and prior to any application of surfacing rock. Ditches shall drain to culverts, ditchouts, and natural drainages. The shape of ditches shall be in accordance with the Typical Section Sheet and the Culvert and Drainage Specification Detail.
 - Site indicative ditching may be required on this project regardless of road template specifications on the Typical Section Sheet, which may require insloping or outsloping of the subgrade. The contractor/operator will be required, as part of this contract, to construct ditches as directed by the Contract Administrator, where unforeseen site conditions dictate. Ditching will generally be required to control runoff on steeper grades, in conjunction with culvert installations, and approaches to fill embankments.
- 6.22 Catch basins shall be constructed to resist erosion, with back slopes consistent with standards in Section 5. Minimum dimensions shall be 4 feet wide and 4 feet long, unless specified otherwise on the Culvert List.
- 6.23 Headwalls shall be constructed in accordance with the Culvert and Drainage Specification Detail. Headwalls shall be constructed at all cross drain culverts, except temporary culverts. Headwalls shall also be constructed at any culvert identified on the Culvert and Drainage List that specifies the placement of riprap.
- 6.24 Embankment slopes adjacent to culvert inlets and/or outlets at live stream crossings shall be armored with riprap, for a distance of 1 culvert diameter on each side of the pipe, and 1 culvert diameter above the pipe in accordance with the Culvert and Drainage Specifications Detail.
- 6.28 Rolling dips shall be constructed in accordance with the Rolling Dip Detail, at a maximum spacing that will produce a vertical drop of no more than 10 feet between constructed dips, or between natural drainage paths. The spacing and number of rolling dips may be adjusted by the Contract Administrator.

Rolling dips are constructed by increasing the outslope of the subgrade surface at the required locations. This includes a gradual transition into and out of the rolling dip from the subgrade template as specified on the Typical Section Sheet.

Excavated material from rolling dip construction shall not remain on the subgrade surface in the form of a berm or waterbar. Sidecasting of material removed with excavation

equipment shall be sufficient to form a ditchout to direct surface runoff into, through, and away from the rolling dip, so as to not create ponding.

Discharge of water from rolling dips should be directed to reduce sediment movement and sideslope erosion. Direct the discharge into debris concentrations, onto rocky sites, preferably onto ridges rather than directly into draws. Construction location and workmanship are subject to the approval of the Contract Administrator.

6.30 Riprap required as part of the contract shall conform to the minimum riprap specifications for the Riprap Type listed below. Minimum specifications require that riprap be placed at a width of one culvert diameter on each side of the culvert entrance and/or outlet, and to a height of two culvert diameters above the top of the culvert. Use of materials and other sources of riprap are subject to the written approval of the Contract Administrator.

Riprap Type

Light Loose Riprap

- 6.32 Riprap shall be set in place in conjunction with the construction of embankments. Riprap shall be placed on shoulders, slopes, around culvert inlets and/or outlets as designated on the Culvert and Drainage List or as directed by the Contract Administrator. No placement by end-dumping or dropping of riprap shall be allowed. Riprap shall not restrict the flow of water into culvert inlets or catchbasins.
- 6.33 Riprap specifications require the material to be hard, sound and durable. It shall be free from segregation, seams, cracks and other defects that tend to destroy its resistance to weather and stream action. The riprap material shall be free of rock fines, soil, organic debris, or other extraneous material.

Heavy Loose Riprap - shall meet the following grading requirements:

Min / Max	Minimum Size	Maximum Size
40% / 90%	35" (2001 lbs)	
70% / 90%	20" (373 lbs)	
10% / 30%		10" (47 lbs)

Light Loose Riprap - shall meet the following grading requirements:

Min / Max	Minimum Size	Maximum Size
20% / 90%	20" (373 lbs)	36" (2177 lbs)
80% /	12" (81 lbs)	30" (1260 lbs)
10% / 20%		10" (47 lbs)

Concrete Slabs - shall meet the following requirements:

Minimum thickness (h) of 3", minimum width (w) of 12", minimum depth (d) of 12". Slabs shall be placed horizontal in a shingled effect according to the Riprap Specifications.

Concrete Sacks - shall meet the following requirements:

Minimum empty sack dimensions: 12" wide by 24" deep. Aggregate mixture shall be 4 parts sand/gravel and a minimum of 1 part Portland Cement. Openings of each sack shall be securely closed and placed opposite to potential water turbulence. Sacks shall be laid horizontal, in a shingled effect, according to the Riprap Specifications.

- 7.2 Rock used under this contract must be obtained from outside sources. Alternate rock sources used will be subject to the written approval of the Contract Administrator.
- 7.20 Rock applied as surfacing, as designated on the Rock list shall be angular material and have a minimum of 90 percent of the top 4 inches pass a 3-inch square opening. Specifications may be adjusted with approval from the Contract Administrator.
- 7.21 Screening and/or crushing operations, and placement of oversize material shall be conducted in or near the pit site, as approved in writing by the Contract Administrator.
- 7.22 The Operator may use in place processing, such as a grid roller or other method, if suitable crushing can be demonstrated to meet the surfacing size restrictions. The use of in place processing methods is subject to written approval by the Contract Administrator.
- 7.30 Placement and compaction of rock shall be accomplished in lifts not to exceed 6 inches uncompacted depth.
- 7.31 Each lift of rock shall be sloped as shown on the Typical Section Sheet, and shall be uniform, firm, rut free, and shaped to ensure surface runoff in an even, unconcentrated manner.
- 7.32 Compaction shall be completed after rock has been spread into place, by walking the spread equipment back and forth over the entire spread surface. The traffic of rock hauling equipment shall be directed to use the entire running surface, and avoid driving in the same tracks, to assist in surface compaction.
- 7.40 Rock shall be applied as designated on the Rock List and/or spot patching as directed by the Contract Administrator. Quantities specified herein are compacted yards. Loose yardage is pit specific and must be applied by the contractor to meet specified rock depths.
- 7.41 Measurement of specified rock depths, are defined as the compacted depth/s using the compaction methods required in this contract. Specified rock depths are minimum requirements, and shall not be subject to reduction.
- 7.42 Turnouts, turnarounds, and curve widening shall have rock applied to the same depth and specifications as the traveled running surface.

SECTION 8 - STRUCTURES

- 8.0 Gate installations required as part of this contract shall be installed within 30 days of the commencement of road construction operations. Gates shall be kept closed and locked between the passage of trucks and service vehicles, except by permission from the Contract Administrator
- 8.1 Tubular Metal Gate/s shall be supplied and installed on the following road/s in accordance to the Metal Gate Detail. If fences exist at the site of gate installations, the contractor shall be required to connect the fencing to the posts of the new installation, except by permission from the Contract Administrator.

Road Station

E393610A Install at the locations specified by the Contract Administrator.

Two tubular metal gates are required to be installed as part of this road plan. The required widths are a 16 footer and a 12 footer.

8.10 The supply and installation of a new stream crossing structure is required as part of this contract. The contractor is required to obtain written approval for all plans, materials,

suppliers, and methods of construction, from the State, prior to any materials purchasing and/or construction activities. For the stream crossing structure installation portion of this contract, the State, as referred to herein, shall be the Regional Engineer at the Northeast Region Headquarters, in Colville, WA, and/or designee.

RoadStationStructureE393610A46+99Bridge

- 8.11 The contractor is required to perform excavation, site preparation and installation at the site designated, as part of this contract. The contractor shall be required to obtain written approval from the State, as designated in this contract, for all plans, methods and equipment used for the installation, prior to commencement of work.
- 8.12 Minimum specifications for the structure are as follows:

Design Configuration: Steel Stringer –Concrete Deck Composite

Overall Length: 38 feet

Running Surface Width: 16 feet inside guardrails

Maximum structure depth: 24 inches

(excluding guardrails)

Live Load Design: U-80

Stringers: Weathering Steel
Deck/Running Surface: Reinforced Concrete

Guardrails: Galvanized "W" rail with Class "A", Flared

End Terminals

Guardrail posts: Weathering Steel

Guardrail height above Running Surface: 30 inches

Grade Beam/Sills: Reinforced Concrete

Stringer ends shall be separated from the approach embankments by integral panels and/or component end walls.

End Walls shall have wings extending to a minimum width matching the outside dimensions of the installed guardrail systems, and extending downward at no more than 45 degrees from horizontal to the base of grade beams/sills.

Bridge designs incorporating a poured in place concrete deck system are subject to approval from DNR Northeast Engineering.

Poured in place decks will require approval of the mix design from Northeast Engineering office prior to delivery and installation.

8.13 Installation Requirements

- 1- End elevations shall be as specified on Typical Bridge Installation diagram.
- Final grade elevation of bridge shall be above the grades of the approaching road on each end. Road approaches shall drop from the finished ends of the bridge at 2% grade for at least 200 feet, and make a smooth transition with the continuing road.

Minimum Clearance above low water: 5 Feet

Minimum Spacing between inside edges of grade beams: 24 Feet

- 8.14 The bridge shall be supplied and installed by the Contractor. All costs involved with removing any old structure, site preparation, installation of the new structure, materials, equipment or any other costs involved with the bridge shall be at the contractor's expense.
- 8.15 The bridge installation portion of this contract shall require the supervision of the State for

all plans and operations.

8.16 The bridge installation shall be in the general format as depicted by the Typical Steel Bridge Installation diagram. The contractor is required to excavate footings perpendicular to, and centered across the road centerline to an elevation below the potential scour depth of the stream, as determined by the State. Footings shall be filled and compacted with angular rock, both ends of the bridge compacted and graded to the same elevation, to accept the placement and positioning of the grade/sill bearing beams, or as approved otherwise in writing by the State.

Minimum excavation depth below elevation of channel bottom: 2 feet
Minimum elevation of bottom of stringers above channel bottom: 5 feet

Minimum Dimensions of excavation pit and rock spread footings on each bridge end shall be as follows:

Depth below native ground surface:	5	feet
Dimensions of each pit base:	12 x 30	feet
Estimated rock per footing base:	100	Cu Yards
Estimated Fine Surface rock per footing base:	4	Cu Yard
Estimated Course Surface rock per footing base:	5	Cu Yard
Dimensions of top of each rock footing:	6 x 22	feet
Estimated rock per abutment/wingwall:	10	Cu Yards

Estimated total rock required for bridge install: 258 Cu Yards

- 8.17 Riprap shall be placed from the bearing sills to the stream channel on both sides to armor the stream bank underneath the bridge prior to the installation of the bridge onto the sills. Riprap shall meet the Light Riprap Specifications. Riprap shall be of suitable size and placed in a manner as to not come into contact with the bridge stringers.
- 8.18 Approach embankments shall be constructed of riprap material to an elevation of 12 inches below finished grade of the road approaches to the bridge for a maximum of 20 feet from each end of the bridge. Suitable surfacing material shall be placed over top of the riprap base material to complete the road approaches.
- 8.19 Installation of stream crossing structures shall be in accordance with the manufacturer's requirements. The contractor is responsible for the repair or replacement of damaged materials. Repairs to structural materials will be made only with the direction of the manufacturer, and shall not be commenced without final written approval from the Contract Administrator, representing the State.
- 8.20 Coffer dams shall be constructed to divert water away from any excavation below stream level. The contractor shall be responsible for the supply and removal of any material required for the cofferdam construction.
- 8.21 The State will be responsible for approving or rejecting submitted plans on or before five working days after receipt of construction plans at the Region Headquarters Office. The Contractor does not have approval to commence purchasing, mobilization, or construction, until written authority to proceed is issued by the Region Office.
 - Upon receiving authority to proceed from the State, the Contractor shall provide three complete sets of finalized plans to the Region Engineer within three working days following receipt of the approval to proceed. Any omissions to plans shall be the responsibility of the contractor to correct, and to resubmit a finalized set of plans.
- 8.51 The bridge installation portion of this contract shall require the supervision of the State for all plans and operations. The State, as referred to herein, shall be the Regional Engineer at the Northeast Region Headquarters, in Colville, WA, and/or designee.

Road or Structure	Stations	\$/Station	RUNNING COST	1	
E393610A (25+37 - 30+76)	5.39	\$120.00	\$646.80	1	
E393610A (30+76 - 34+96)	4.20	\$240.00	\$1,008.00		
E393610A (34+96 - 35+31)	0.35	\$120.00	\$42.00	MOBILIZATION	
E393610A (35+31 - 36+09)	0.78	\$240.00	\$187.20		
E393610A (36+09 - 36+64)	0.55	\$4,361.34	\$2,398.74	LIGHT BRUSHING	
E393610A (36+64 - 37+54)	0.90	\$240.00	\$216.00	MEDIUM BRUSHING	
E393610A (37+54 - 38+02)	0.48	\$120.00	\$57.60	LIGHT RECONSTRUCTION	
E393610A (38+02 - 38+60)	0.58	\$2,034.00	\$1,179.72	MEDIUM RECONSTRUCTION	
E393610A (38+60 - 39+17)	0.57	\$120.00	\$68.40	MEDIUM CONSTRUCTION	
E393610A (39+17 - 39+56)	0.39	\$240.00	\$93.60	HEAVY CONSTRUCTION	
E393610A (39+56 - 40+32)	0.76	\$120.00	\$91.20	LIGHT ABANDONMENT	
E393610A (40+32 - 40+92)	0.60	\$2,034.00	\$1,220.40	HEAVY ABANDONMENT	
E393610A (40+92 - 44+01)	3.09	\$120.00	\$370.80	Rocking 9" surfacing	
E393610A (44+01 - 44+98)	0.97	\$4,158.00	\$4,033.26	Rocking 18" surfacing	
E393610A (44+98 - 46+12)	1.14	\$4,278.00	\$4,876.92		
E393610A (46+12 - 46+54)	0.42	\$240.00	\$100.80		
E393610A (46+54 - 136+89)	90.35	\$120.00	\$10,842.00	Fabric	
E393616E (0+00 - 6+20)	6.20	\$140.00	\$868.00	Culvert Removal/Bridge Install	
				12' livestock gate	
E393616F (0+00 - 17+38)	17.38	\$140.00	\$2,433.20	16' livestock gate	
E393616H (0+00 - 8+44)	8.44	\$140.00	\$1,181.60		
		*	00.101.00		
E393616J (0+00 - 15+15)	15.15	\$140.00	\$2,121.00		
F202040K (0:00 20:04)	20.04	¢4.40.00	ФО 00 <u>Г</u> 40		
E393616K (0+00 - 20+61)	20.61	\$140.00	\$2,885.40		
E393616L (0+00 - 7+94)	7.94	\$140.00	\$1,111.60	1	
L393010L (0+00 - 7+94)	7.54	ψ1 4 0.00	\$1,111.00		
E393616M (0+00 - 2+48)	2.48	\$140.00	\$347.20	1	
2000010M (0100 2110)	2.10	Ψ1 10.00	φο 17.20	1	
E393616N (0+00 - 2+98)	2.98	\$140.00	\$417.20	1	
		ψ110100	ΨΞΰ		
E393616P (0+00 - 35+27)	35.27	\$140.00	\$4,937.80	1	
,				1	
E393616Q (0+00 - 13+66)	13.66	\$140.00	\$1,912.40	1	
				1	
E393616R (0+00 - 13+45)	13.45	\$140.00	\$140.00		
E393616S (0+00 - 5+46)	5.46	\$140.00	\$764.40		
				1	
E393616T (0+00 - 3+97)	3.97	\$140.00	\$555.80	1	
E393616T (3+97 - 9+68)	5.71	\$500.00	\$2,855.00	1	
E393616T (9+68 - 33+03)	23.35	\$140.00	\$3,269.00		
				4	
E393616U (0+00 - 16+64)	16.64	\$140.00	\$2,329.60	-	

TOTAL COST \$101,807.06

\$920.00
\$40.00
\$60.00
\$80.00
\$200.00
\$500.00
\$1,000.00
\$100.00
\$300.00
\$1,914.00
\$4,038.00
ψ4,030.00
20.04
\$83.34
\$45,000.00
\$146.82
\$177.60

FOREST ROAD ACCESS

Road Maintenance Specifications

1. Prior to Acceptance of Contract or Acceptance on Timber Sale

A. Cuts and Fills

- (1) Maintain slope lines as constructed. Remove slides from the ditches and roadway. Replace fills to 1½:1 slopes with selected material or as directed. Remove overhanging material from cut slopes.
- (2) Material from slides or other sources requiring removal must not be deposited in streams or at locations where it will erode into streams or water courses.
- (3) Undesirable slide materials and debris must not be allowed to contaminate or mix with surface material.

B. Roadway Surfaces

- (1) Grade and shape road surface, turnouts and shoulder to original crown, inslope or outslope as directed to provide suitable traveled surface and surface water runoff in an even, unconcentrated manner.
- (2) Blading must not undercut backslopes at bottom of cut slopes.
- (3) Watering may be required to control dust and to retain fine surface rock.
- (4) Desirable surface material shall not be bladed off roadway.
- (5) Replace surface material lost or worn away.
- (6) Remove berms except as otherwise directed by the State.

C. Drainage

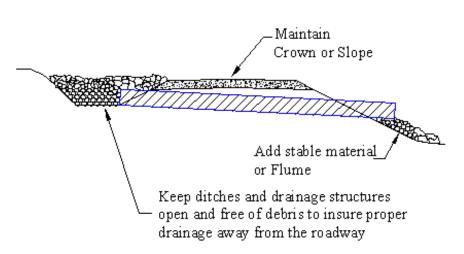
- (1) keep ditches and drainage channels at outlets and inlets of culverts clear of obstructions to not interrupt flow and cause ponding.
- (2) Inspect and clean culverts at least monthly, with additional inspection during storms and periods of high runoff. This must be done even during periods of inactivity.
- (3) Place non erodable material or rock at drainage outfalls as required to stabilize the channel.
- (4) Maintain drainage structures as required to function as intended.
- (5) Keep silt bearing surface runoff from contaminating live streams.

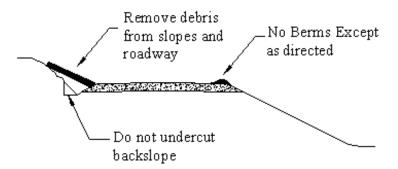
D. Structures

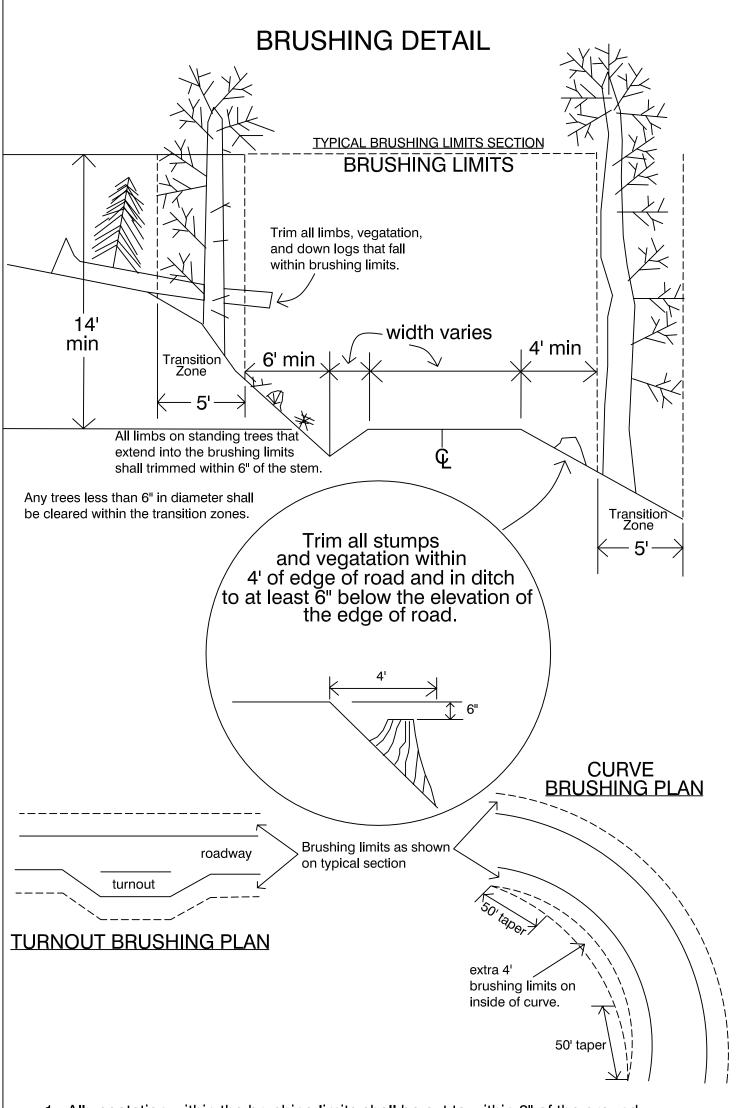
- (1) Repair bridges, culverts, cattle guards, fences and other road structures to conditions required by construction specifications.
- E. Termination of Use, or End of Season
 - (1) Do maintenance work to minimize damage from the elements such as blading to insure correct runoff, ditch and culvert clearing and water bars.

F. Debris

(1) Remove fallen timber, limbs, stumps from slopes and roadway, ditchlines and culvert inlets.







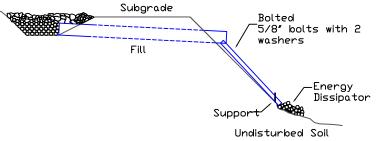
- 1. All vegatation within the brushing limits shall be cut to within 8" of the ground, unless otherwise directed by the contract administrator.
- 2. All brush, trees, limbs, etc. shall be removed from the road surface and ditchline.
- 3. All debris that may roll or migrate into the ditchline shall be removed.

CULVERT AND DRAINAGE SPECIFICATIONS DETAIL

Subgrade Undisturbed Soil

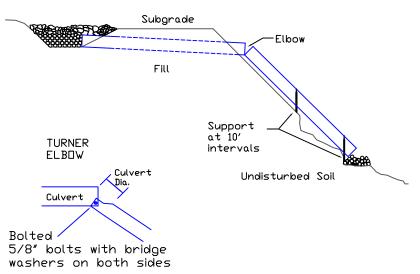
FLUME

Use where ground conditions are uniform, providing for stability of flume.

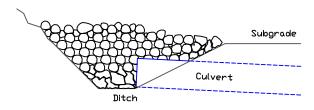


DOWNSPOUT

Use where ground conditions are irregular.



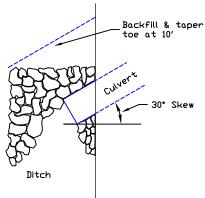
HEADWALLS



Headwall to be constructed of material that will resist erosion

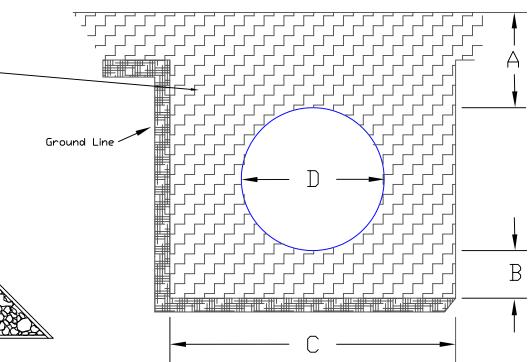
Minimum Cover	Minimum Bed Depth	Min. Trench Width	Nominal Diameter
Α	В	С	D
12"	6 "	36"	18"
12"	6 "	42"	24"
12"	6 "	48 *	30 ″
12"	6 "	54 ″	36*

PLAN VIEW



CULVERT BACKFILL & BASE PREPARATION
(For Culverts Less Than 36")

ROAD SURFACE



BEDDING MATERIAL: -

Use granular material - 3' minus. Large rocks shall be replaced with suitable material. Materials of poor or non-uniform bearing capacity shall be removed and replaced with suitable fill.

DISSIPATOR SPEC'S
Size in Culvert Diameters

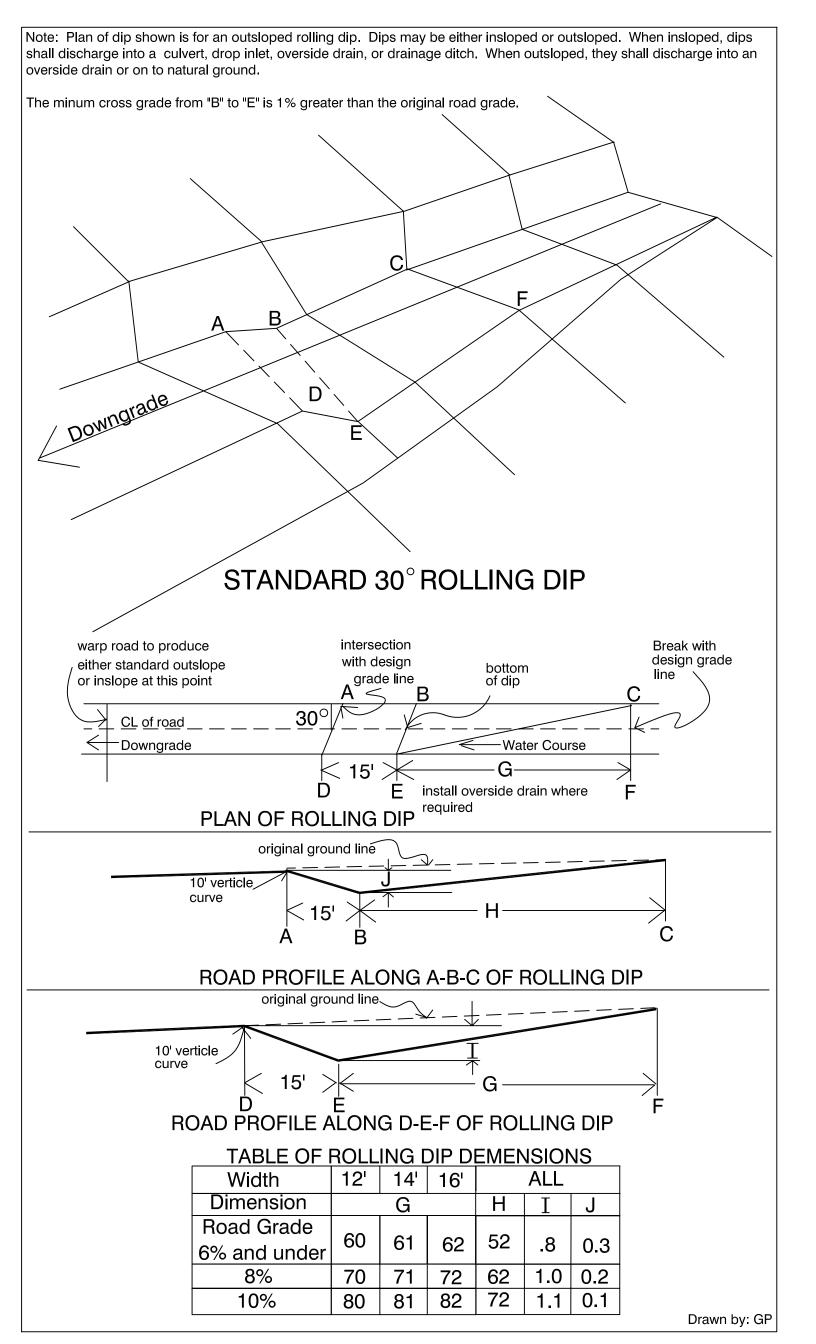
Area 2 X 2 Depth 1 Aggragate 1/3

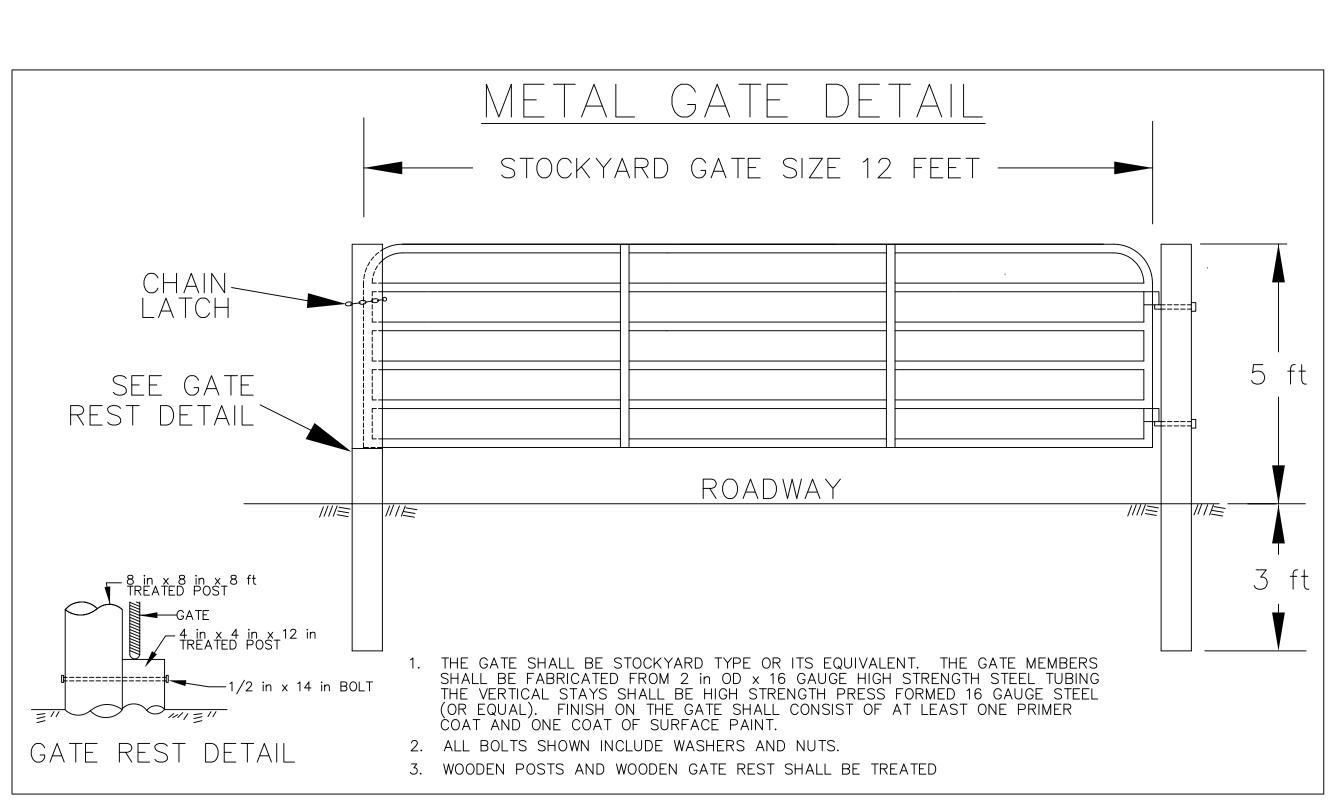


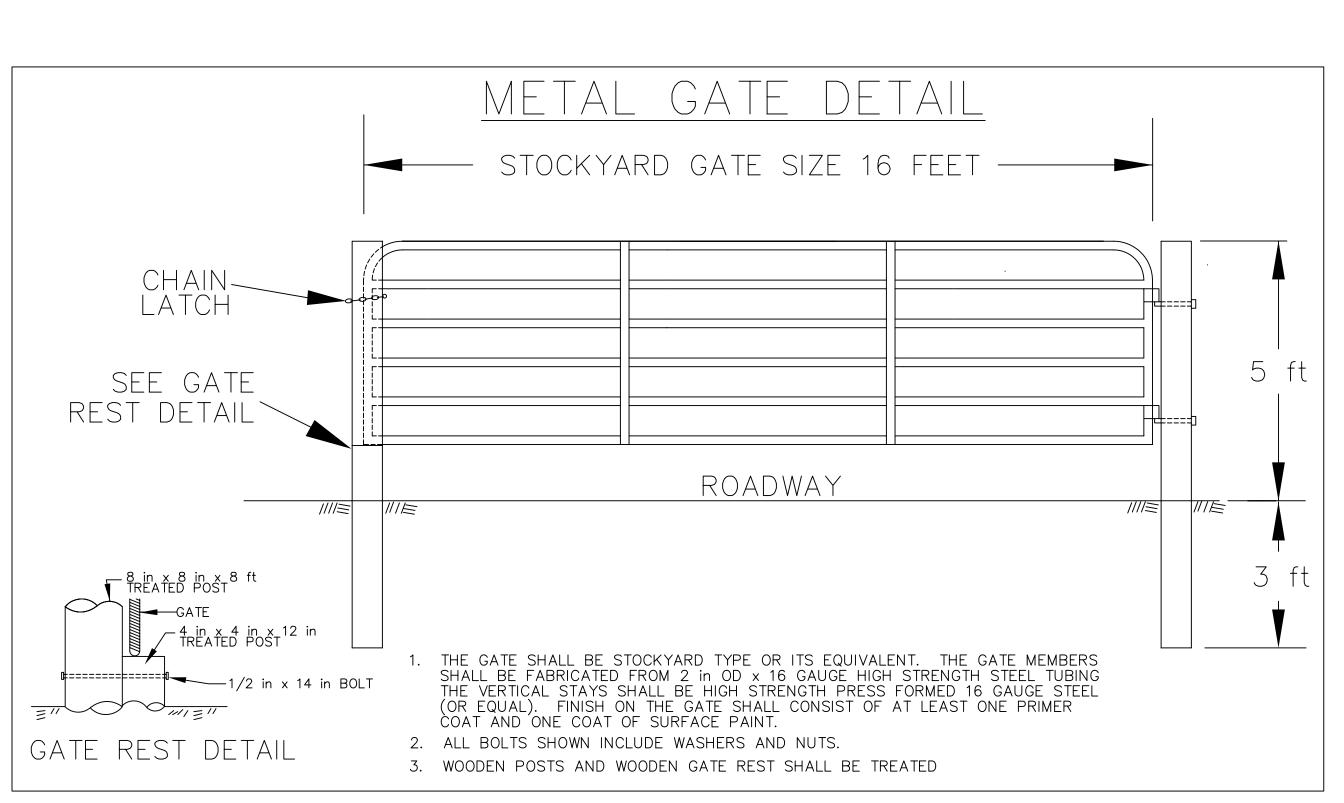


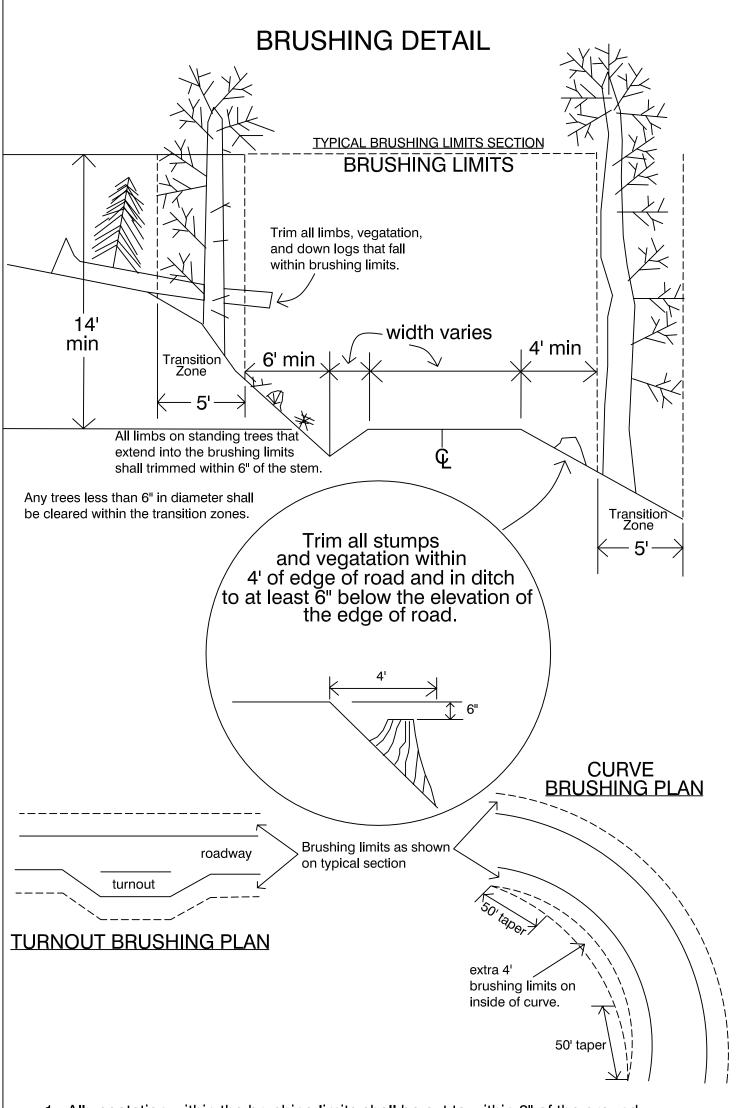
Level

Side Hill









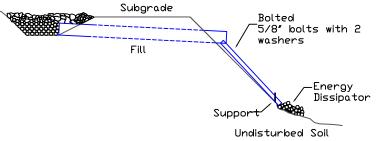
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CULVERT AND DRAINAGE SPECIFICATIONS DETAIL

Subgrade Undisturbed Soil

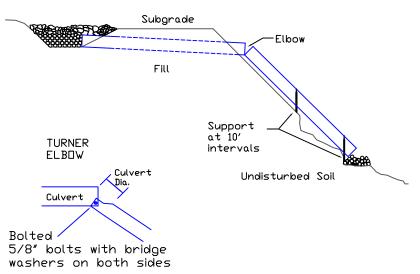
FLUME

Use where ground conditions are uniform, providing for stability of flume.

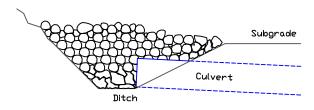


DOWNSPOUT

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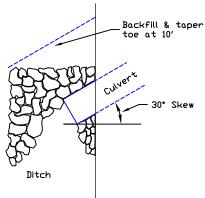
HEADWALLS



Headwall to be constructed of material that will resist erosion

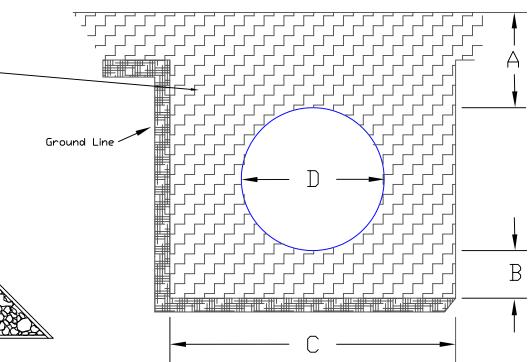
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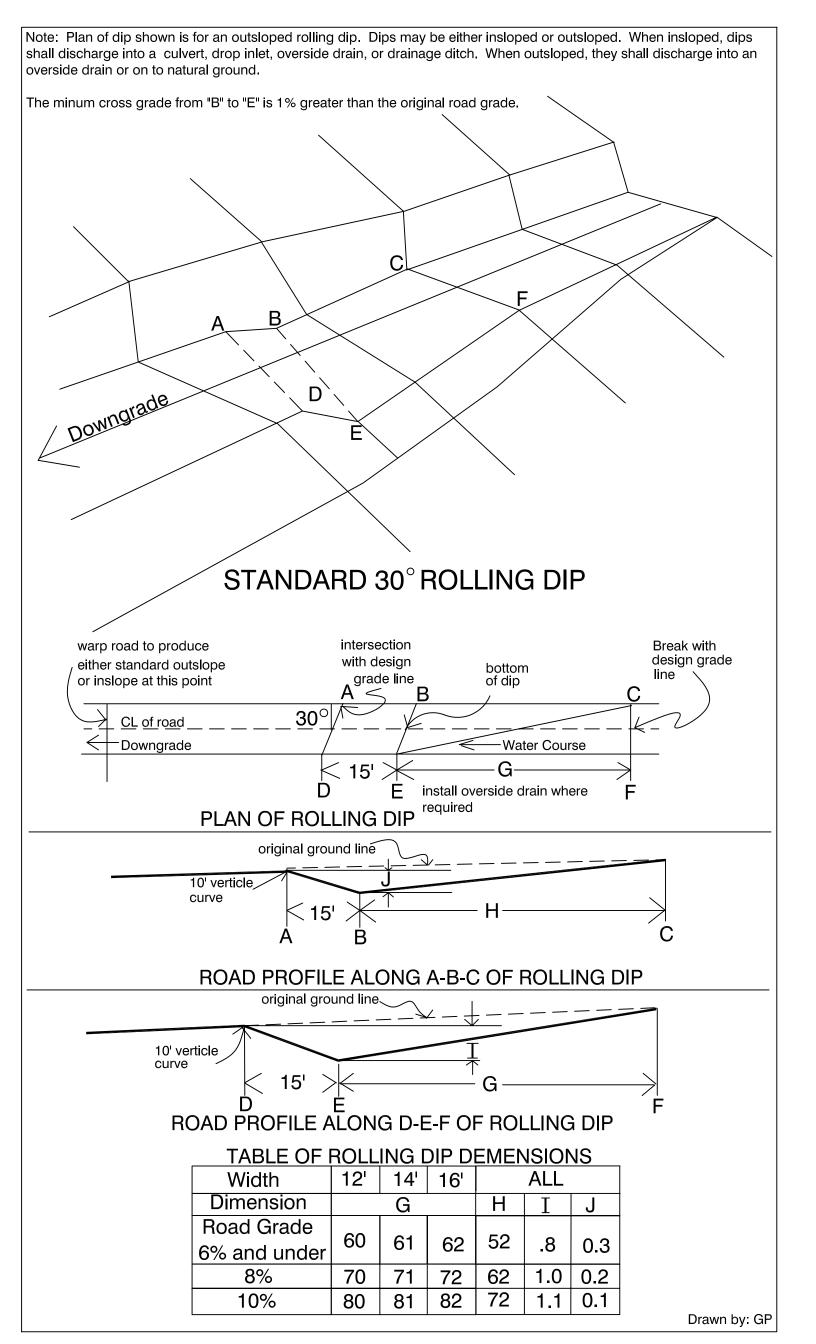
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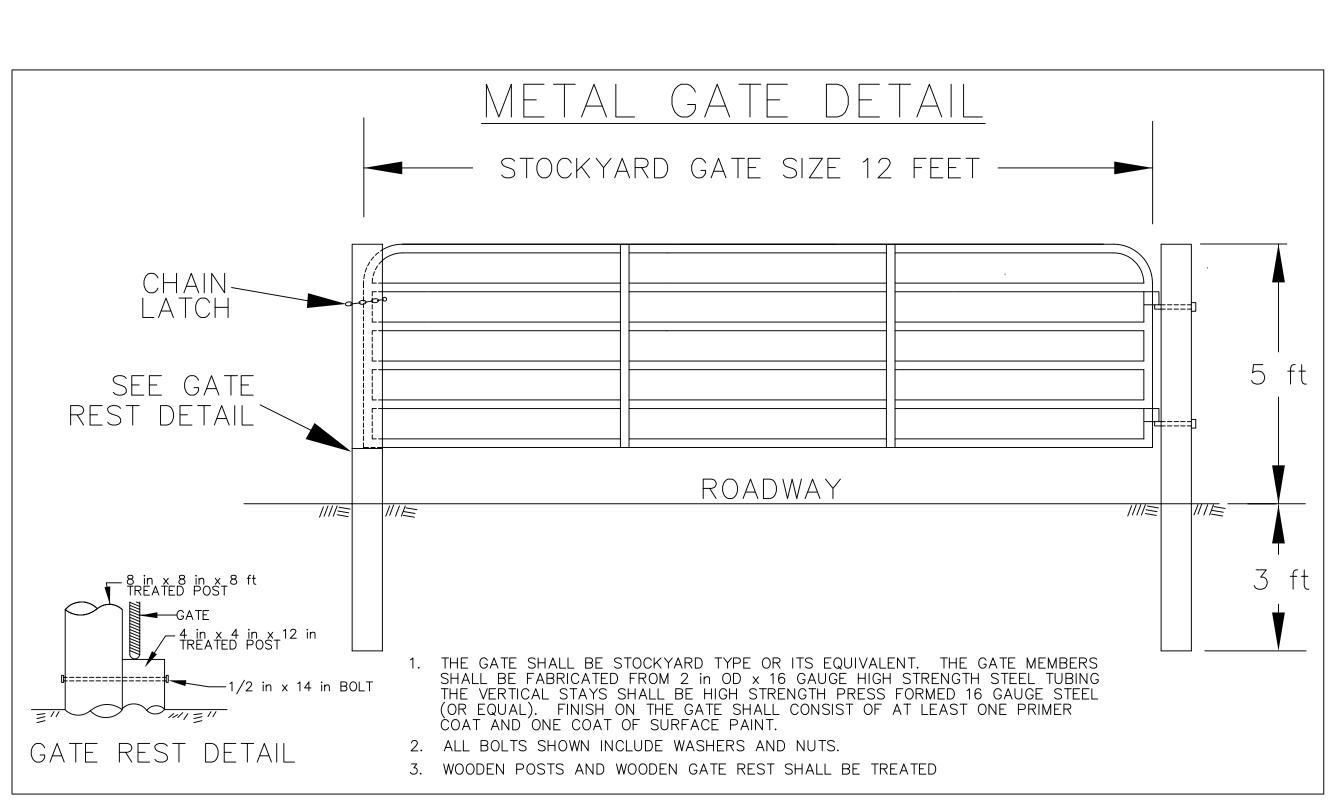


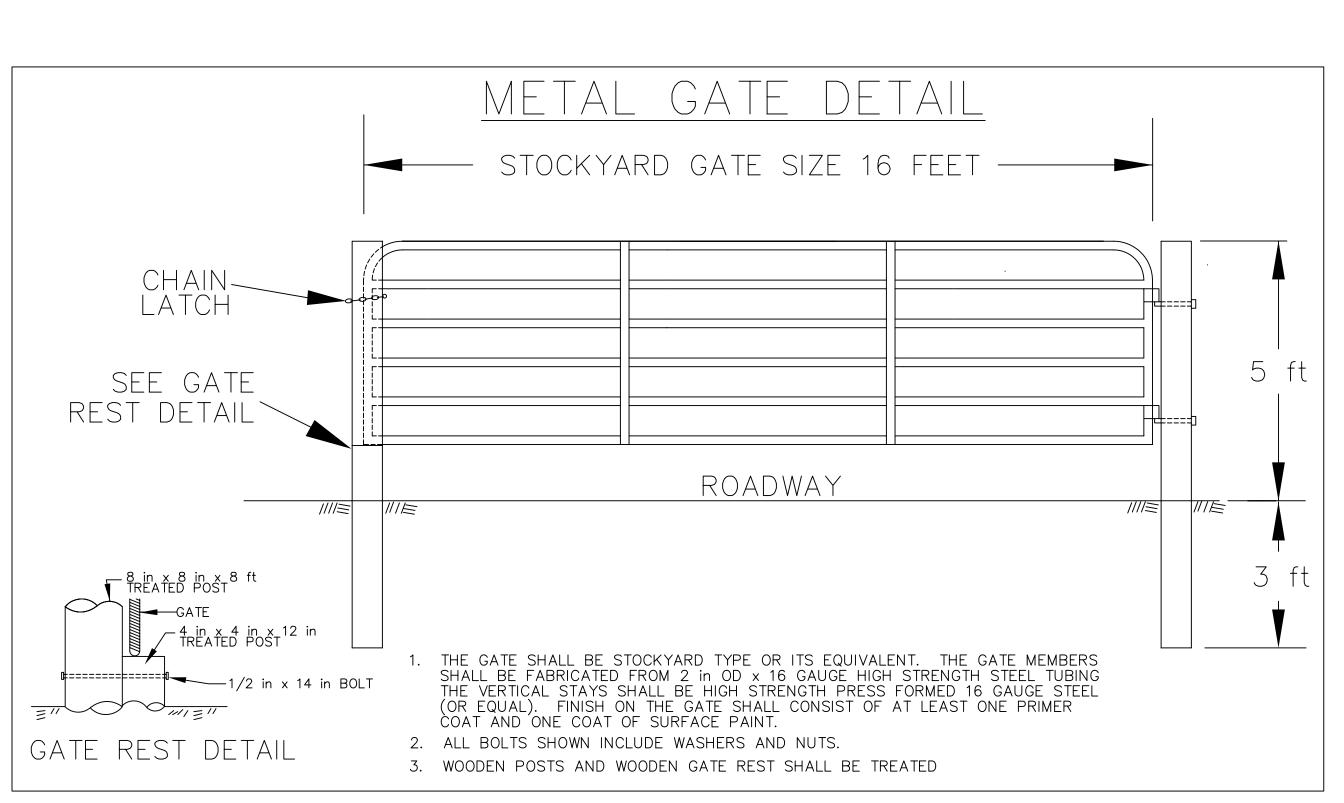


Level

Side Hill







FOREST ROAD ACCESS

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